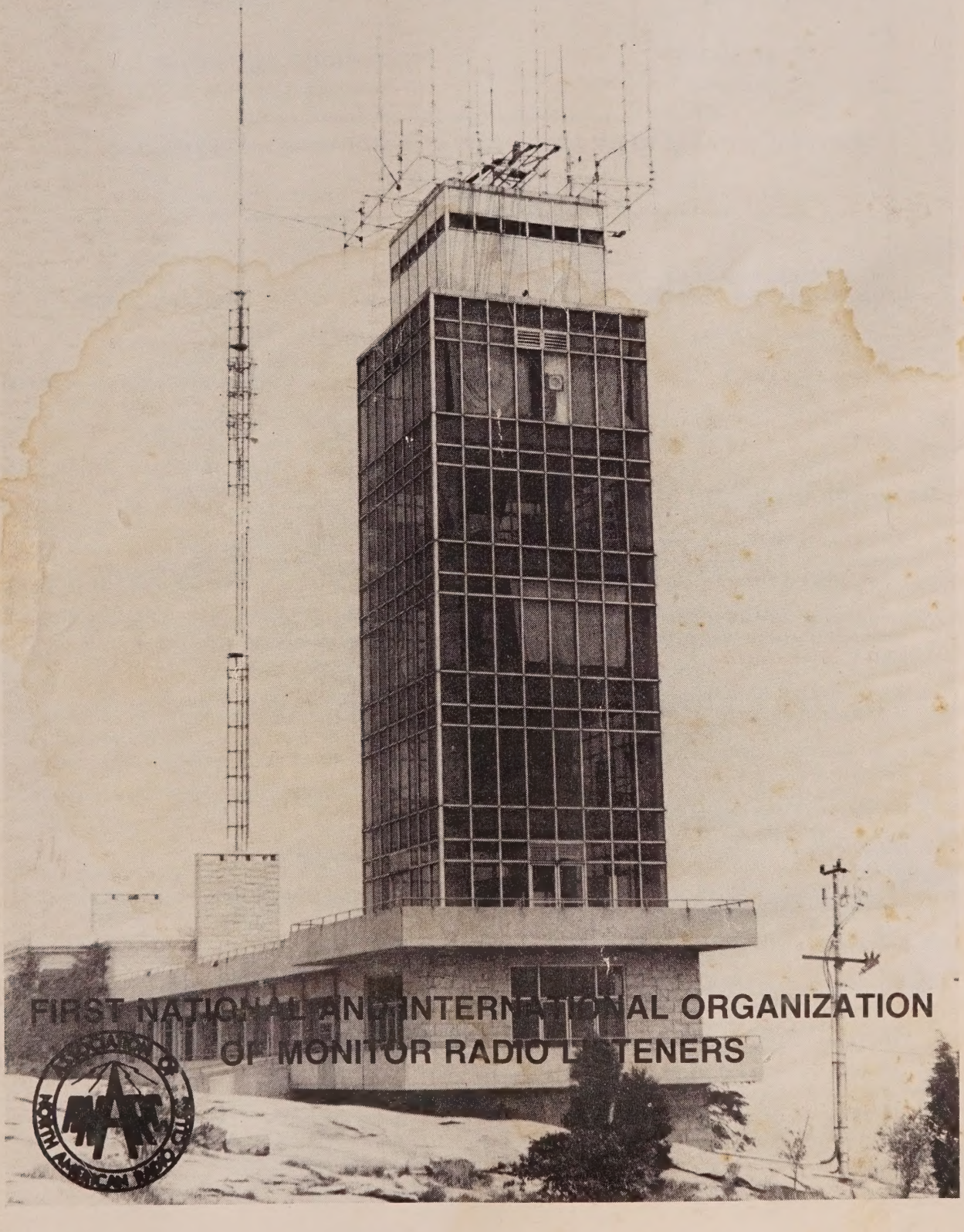
RCMA

NEWSLETTER

OCTOBER 1986



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RCMA NEWSLETTER

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FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropiate, send input to RCMA, P.O. Box 1198, Manhattan Beach, CA 90266-8198

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR RCMA MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

5. Please write on only one side of the paper.

6. Please don't combine in one letter several items that should go to different addresses.

7. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

8. Your RCMA membership number and expiration date appear on your newsletter mailing label.

9. You may join or renew your membership for ONLY one year at a time.

10. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER

ISSUE 128 OCTOBER 1986

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RCMA, Inc., P.O. Box 4563, Anaheim, CA 92803

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CONTACTING RCMA?

Membership applications or renewals, address changes, inquiries about delivery or renewal problems:

Write to: RCMA General Manager
P.O. Box 542
Silverado, CA 92676

Comments or questions about RCMA club policy or newsletter content: Write to: William Mauldin, RCMA General Editor
2268 N. W. 30th Rd.
Boca Raton, FL 33431

Letters for publication in "Your Thoughts" column: Write to: Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198
Manhattan Beach, CA 90266-8198

Correspondence sent to RCMA's Anaheim Post Office Box will still be answered, but there will be a 4-6 week delay.

This ranger station and radio site is atop 1685' Stone Mountain, near Atlanta. Tower on the left is for public TV, channel 8, and Motorola services most of the gear on the right. Local and federal agencies are here. PHOTO BY JIM ABDU (New Product Editor)

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

CALENDAR

Send notices of upcoming events for the Calender section to:
John R. Clark, 2701 Fairview Road, Costa Mesa, CA 92620
Deadline: 1st of the month two months prior to cover date.

R.C.M.A. Greater L. A. Area Chapter

We are in the process or a reorganization check this column next month.

RCMA West Los Angeles Chapter

Contact : Hugh Stegman (CA-LA-472)
Talk in: 146.925 MHz {-600 PL-2A} Tues 1930 hrs net.

The new West Los Angeles Chapter of RCMA meets on the 2nd Wednesday of every month, at 7:30 PM, at Shakey's on Sepulveda Blvd. and Playa or Jefferson (depends on which way you're going), in Culver City. This is few blocks north of Fox Hills Mall, and the 405 freeway exit at Slauson.

Meetings are scheduled for Oct 8, Nov 12, and Dec 10, 1986. Come for frequency swapping and general fun.

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: Homer's Resturant and Lounge, 7340 Madison Street, Forest Park is currently the temporary location . This location is about 2 blocks west of Harlem Ave and about 3/4 mile from both the Congress/O'Hare and Lake St lines. It is 4 blocks north of the Eisenhower Expressway and 2 blocks west of the Harlem Ave Exit. (It would be wise to check with Ed Sirovy to be sure this is the location for the the following meetings)

Saturday September 27 1986 12:30 PM
Saturday November 15 1986 12:30 PM

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other items which may be scheduled on short notice.

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

R.C.M.A. Minneapolis — St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

All Ohio Scanner Club

Contact David B. Marshall OH-146, Managing Editor
50 Villa Road, Springfield, OH 45503-1036

The All Ohio Scanner Club covers the area of Indiana, Kentucky, Michigan, Pennsylvania, West Virginia, and Ontario, Canada. We welcome members from these and other areas who wish to join our club.

Sample Newsletter: $1.00 plus $0.39 stamp. Membership information for a large SASE to the Post Office Box listed above.

R.C.M.A. Wisconsin

Contact Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

NEED BACK ISSUES OF THE RCMA NEWSLETTER:

Lots (Months/Year)	No. of Issues	Price
Sept 75 — June/July 76 (No Oct. or Nov. Published)	7	$2.00
August — Dec. 76 (No Oct. Published)	4	$3.00
Jan. — June 77	6	$4.00
July — Dec. 77	6	$4.00
Jan. — June 78	6	$5.00
July — Dec. 78	6	$5.00
Jan. — June 79	6	$6.00
July — Dec. 79	6	$7.00

1980—to date issues are available at $1.50 per copy

Order Total	Include This Amount of Postage
$ 1.50 — $ 5	$1.20
$ 5.50 — $10	$2.25
$10.50 — $15	#3.30
$15.50 — $25	$4.15
$25.50 — $35	$5.50
Over $35	$7.00

Send your request & check/M.O. (payable to RCMA) to:
RCMA General Manager
P.O. Box 542
Silverado, CA 92676

your thoughts

Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198, Manhattan Beach, CA 90266-8198

Your Thoughts is RMCA's members forum on current topics of interest to the scanner hobbyist. If you have any thoughts you would like to express, RCMA encourages you to send them in.

All letters must include your name, address, and RCMA membership number. Due to space limitations, RCMA reserves the right to condense submitted material.

July, 1986

Dear Your Thoughts:

I am surprised that no one submitted the frequencies used, or to be used, during the July 4th Statue of Liberty Rededication ceremonies in the New York area! Such would include the police in and around New York and New Jersey, Military, press and media, National Park Service, Coast Guard, Airports, airlines, all transportation, municipal frequencies, Meadowlands complex, as well as the Port Authority of New York and New Jersey, the Staten Island Ferry and Circle Line.

You folks really missed this one. I am sure that many wanted to know what frequencies to monitor while in the New York area.

Sincerely,

Howard Bender, PA 214

[Okay, so DID anyone attend the Rededication ceremonies and compile a list of frequencies? If you did, you can submit your list(s) to Communications Profile or as a Special Feature.

Please remember, the Newsletter is written by YOU, the members, not the column editors. The column editors are volunteers who edit YOUR contributions. They depend on your input!

If you know of an upcomming special event and can provide information of interest for that event, please feel free to write me and I will see that it is used in the Newsletter. KDSJ

Remember, YOUR THOUGHTS is for precisely that:
YOUR THOUGHTS! Hope we see yours soon! *Kurt*

Following is a statement to all RCMA members from John Coker, IL-010

BY THE TIME YOU READ THIS, IT IS EXTREMELY LIKELY THAT THE ELECTRONICS COMMUNICATIONS PRIVACY ACT WILL BE LAW.

You may find out the status by contacting the office of your local U.S. Congressman or U.S. Senator. Ask for the status of Senate Bill S-2575. Its counterpart, House Bill HR-4952 passed in June.

1. If the Senate Bill S-2575 has not yet passed the Senate, leave word with your Senator to vote against the bill when it is called on the Senate Floor. Only support this bill if all ANARC (Association of North American Radio Clubs) amendments have been accepted.

2. If the Senate Bill S-2575 has passed, the bill will go to a joint House-Senate conference committee to iron out differences between the two bills. Find out from your Congressman who to send your comments to. You should push for the Senate version of any differences. The Senate bill will be definitely better than the House Bill version.

3. A last ditch stand would be to ask the President to veto the bill, but this is a REAL LONG SHOT unless you're Nancy Reagan, as the Justice Department appreciates the new bill as giving them powers they didn't clearly have before.

4. Instead of step three, it is suggested you:

   a. Buy that all-band radio you've been eyeing(before they're all gone, and before they're seized at the border).

   b. Obtain a copy of the House Report HR-99-647, and the corresponding Senate Report (obtain the number from your Congressmen or Senator). READ IT AND WEEP that you didn't contact them when it counted. And, learn what frequencies you can't listen to or talk about now without going to prison for one to five years.

   c. Consider going 'underground' and getting your name removed from the mail lists of all manufacturers of 'electronic listening devices' now considered illegal.

   d. Be careful selling your old radios at Hamfests. You never can tell if the Federal Radio Police are going to be out to get you for 'conspiracy to sell an illegal listening device'. Whatever you do, don't mention that you can even monitor cellular telephone calls!!

   e. Buy inside type antennas and take down your external antennas. It's believed that CRIMESTOPPERS will be offering $1000 for turning in neighbors that violate the new law.

HAPPY LISTENING!!! (EXCEPT TO THOSE FREQUENCIES AND COMMUNICATIONS OUTLAWED BY TITLE 18 OF THE U.S. CRIMINAL CODE, AS AMENDED 1986)

P.S. Thanks to all who helped fight this new law, especially Bob Horvitz of ANARC. I'd suggest that everyone send Bob $5 to help him defray some of the hundreds of dollars he's paid out of his own pocket on fighting this legislation. Send it to Bob Horvitz, 1634 15th Street, NW, Washington, DC 20009. Consider it as the price of a crystal for a scanner. Remember, this bill would be 1000% worse if we hadn't had Bob Horvitz living in Washington to fight this bill. (MY check's in the mail already!!!)

And don't forget those manufacturers that did SO MUCH to screw us! Don't forget it was Regency who got us into this mess; their ads promoting scanners to listen to telephone calls were the single-most cause for this legislation. Plus, Regency offered to finance a general mailing to inform RCMA members, then BACKED OUT without leaving RCMA time to do something on its own. And, don't forget Tandy (Radio Shack) for their 'accurate' testimony which claimed encryption costs too much for communications providers to install. Remember these and other manufacturers when it comes time to buy that next piece of equipment. (I was just thinking---they can now come out with a new line of equipment, with all of the illegal channels eliminated; boy will they make a killing on us!)

Last but not least, remember those fine legislators who did so much to shove this bill down our throats:

Representative Carlos Moorhead of California
Representative Robert Kastenmeier of Wisconsin
Senator Patrick Leahy of Vermont
Senator Charles Mathias of Maryland (thank goodness, not running again! He sent me the same form letter five times; his people didn't even notice once that I'd attached copies of the form letter to mine; would have been six, but he got the wrong bill once!)

All of the above (except Mathias) are up for election in November. You people in their districts deserve these responsive legislators! Thanks for your support! Where were you when we needed you? Why didn't you organize your own PAC to counteract the cellular lobbyists? Would have only cost you a few thousand dollars a legislator!

Note that all Congressmen are up for re-election. Considering that there was NO opposition in the House for this bill, and that the final vote was voice only with a sparce turnout, you should assume that EVERY Congressman voted for this bill--if only by his silence!

My personal thanks again to Bob Horvitz who did so much for us scanner owners on this one; I don't think he even OWNS a scanner himself!

John Coker IL-010

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

Write to Joe Barr, 1500 Bunbury Dr., Whittier, CA 90601, for the following:
Copy of ANARC Club List — Sent 25¢ and an SASE (business size)
Sample Copy of ANARC Newsletter — Send 60¢ and an SASE (business size)
Annual Subscription to ANARC Newsletter — $7.50 for residents of U.S., Canada, and Mexico; $10 Overseas (Airmail)

OCT 4 AMERICAN SHORTWAVE LISTENERS CLUB (ASWLC) Saturday, 10 AM to 3PM at club headquarters, 16182 Ballad Lane, Huntington Beach, CA 92649. For information send a SASE to above address or call (714) 846-1685.

CENTURY PRINT SHOP, 6059 Essex Street, Riverside, CA 92504-1599 is taking Per-publication orders for the 1987 WORLD RADIO TV HANDBOOK at $14.00, in the U.S.A only, prior to 20 September 1986. (Specify P.O. Book rate or UPS delivery.) Add 84 cents sales tax for CA delivery. For first class mail add $2.00. After 20 September 1986 the rate will be $17.00. For more information call (717)- 687-5910. Make checks payable to Century Print Shop.

David Klopfenstein, 2915 South East 58th Avenue, Portland, Oregon, 97206-2016 would like to form a DX Club for Oregonians. For more information send a SASE.

MICHIGAN AREA RADIO ENTHSIASTS, 24500 Union, Dearborn, MI 28124 has a 20-page booklet "GUIDE TO DXPEDITIONING" for $1.25 postpaid. The booklet covers how to organize, evaluate a potential site, tips and technical techniques.

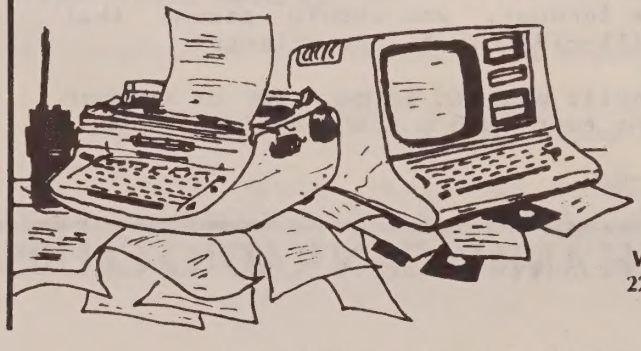
David Pedersen, 196 Grandview Road, Hamilton, New Zealand, would like to tapespond with U.S. and Canadian DXers. He uses a National DR 31 Communications Receiver and would like to exchange DX news and tapes of North American AM and FM stations.

TAB BOOKS, INC. P.O. BOX 40, Blue Ridge Summit, PA 17214 has the new 1986 Fall and Winter Trade Catalog. 22 YEARS OF INNOVATIVE TECHNICAL PUBLISHING has led to this 112 page catalog. From beginner to advanced TAB BOOKS covers about every technical subject including radio communications. Write today and ask for their new copy. --editors comment. Tab book #1682 "Introducing Cellular Communications, The New Mobile Telephone System" by Stan Prentiss $10.95 is a complete description of cellular phone systems.

ALL ELECTRONICS PARTS AND ACCESSORIES, P.O. BOX 20406, Los Angeles, CA 90006 has a new catalog on speakers, transformers, capacitors, switches etc.

UNIVERSAL SHORTWAVE RADIO, 1280 Aida Drive, Reynoldsburg, OH 43068 has a new catalog for Fall and Winter 1986 cost $1.00. The second edition of the "DXers Directory" $4.95 + $1.05 shipping is now available with data on DXers, their name, address and interests.

DICK SMITH ELECTRONICS, 390 Convention Way, Redwood City, CA 94063. Has a Summer Holiday Catalog available for "Free".



From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
2268 N.W. 30th Rd., Boca Raton, FL 33431

ONE MORE TIME - THE EDITOR WAIT LIST PROGRAM

As the "Editor Wait List" program has just started, I would like to again remind you that if you are interested in becoming the Editor of any RCMA column, please drop me a note with your name, address, phone number and subject interest. You need send nothing else. Your name and information will be entered in the computer, and should any of the columns you desire become open and a new Editor is needed, you will be notified by first class mail. At that time, you will be given complete instructions on how to make an official application for the open position.

For the benefit of those new members, RCMA Editors and staff members are all volunteers. We get nothing for our time or material. Every person on the staff does what he or she does because we support RCMA and the club, and we feel a little extra input or effort will make the club grow and make it more enjoyable for everyone. Writing a column for free, some months with no direct input, is not an easy job. We do have some turn-over in our staff because the editors get "burned out" or develop other interests. There will always be another staff position opening just around the corner, so if you are interested, I encourage you to "list yourself" so when that opening takes place, you might be selected and appointed!

Volunteer editors are expected to write a monthly column on their assigned subject. The editor must have a good quality typewriter or word processing printer. (For those of you wondering what I am using, this is a Leading Edge computer, using Volkswriter word processing, and I print my material with a Primage One printer.) Your material must meet the monthly deadlines, be camera ready for Carol Ruth's excellent cutting and pasting efforts, and the material must be submitted by the membership or from direct

research of non-copyrited sources. What you read each month takes time, effort and thought on someone's part. Editors are not allowed to just copy data from commercially marketed directories.

If you are really interested in taking an active part in the club, do let me hear from you... so we can consider your desires and talents! This announcement will be repeated several times during the year, in one form or another. Don't miss out!

HELP WANTED - OPEN EDITOR POSITIONS

At present, we have openings for Editors in the following columns:

SPACE COMMUNICATIONS
PUBLIC SAFETY GREAT LAKES
COMPUTER CORNER

SPACE COMMUNICATIONS deals with monitoring signals coming from space, satellites, frequency and transponder data, sub carriers, hobby receiving equipment, orbital information, and communications related to getting spacecraft off the ground and in the air. This is a most interesting subject, and is certainly one of our most important column subjects. You should have a working knowledge of what is "up there" and also be able to research membership questions on general subject materials.

PUBLIC SAFETY GREAT LAKES covers all information related to public safety agencies in the Great Lakes area. The public safety radio systems of Illinois, Indiana, Wisconsin, Michigan, Kentucky and Ohio are covered under this heading. The monthly column deals with frequency assignments, radio codes, transmitter locations, identification numbers and dispatch information of police, fire, special emergency, prisons, state forestry and game, ambulance, EMS, rescue, civil defense, life guard and ski patrols, and so on. In order to qualify for this position, you should have a good basic knowledge of both the coverage areas and public safety communications in general.

COMPUTER CORNER is our link to using your personal computer to assist you in the monitoring hobby. Computers are used today to research information related to frequencies and to actually control some receivers. The Editor of this column should have a good working knowledge of most basic computer types and languages, as well as a working knowledge of electronics in general. You should be able to answer general membership questions in your articles, print information on new computer related programs which will assist those in hobby monitoring projects, and announce new products which might be of interest to the general membership.

DID RCMA DROP THE BALL ON LADY LIBERTY?

A few days after the July 4th celebration in New York harbor, I received a note from one of our members asking why we did not print information and suggested frequencies on the Liberty Celebration. It was a good question! Why didn't we?

As someone once said, when you want an excuse for not doing something, you can usually find one if you look long enough. I could say that most of our attention during the time was devoted to the Electronics Act. It was. But, that is not really a good excuse. I could also say that we were going through a transfer of assignments for the Public Safety Northeast editor. That we were, but that is not good enough either! We just dropped the ball - and missed the boat all together. There is no doubt about it.

This brings up an interesting NEW subject. What about SPECIAL EVENTS? Like you, I would like to see something in print on them - ahead of time - so if I go to the Super Bowl, the big 4th of July in NYC, the Olympics, the Daytona 500, the Miami Orange Parade or whatever, I can pack my latest copy of the RCMA NEWSLETTER and I will have at least something to start with for some serious hobby monitoring! Do you agree? Certainly you do! That is what RCMA is all about, isn't it!

Do we need a new column? Do we need a SPECIAL EVENTS Editor? Yes, we do! We need to find a super qualified person who will pick out these events, research both on his on and with advance announcements, get input from members who happen to visit or live in the upcoming Special Event areas, and print helpful articles on what we should look for and what we should listen for when we drag the scanner along to the World Series, the Super Bowl, the Daytona 500, or even the Olympics!

Are YOU that person? I am really interested in this subject, and I would like to see it in print very soon! We need not drop the ball in the future, and you might be the one person we are looking for to become the Editor of SPECIAL EVENTS! Give this subject some of your most serious though, and let me hear from you right away if you would like to be considered for this position!

You will have to be willing to do quite a bit of research on your on, but also you will receive input from other RCMA members living or monitoring upcoming special event areas, if you make proper advance planning and announcements! For example, I can give you tons of data on "last year's Orange Bowl"! As with all Editor assignments, you will be expected to write a monthly volunteer column, have a good typewriter or word processing computer, and have a devoted interest in RCMA, and your subjects! This could be one of our most interesting subjects if we can find just the right Editor! And, with your help and input, we "won't drop the ball again!"

CORRESPONDENCE RECEIVED

Like many of you, I wrote my Congressman and Senators regarding the Electronic Communications Privacy Act which has been on all of our minds during the past year. I received a very interesting reply from Senator Lawton Chiles which I thought might be worth printing in this column. Note the comments in paragraph four which relates to ham radio operators and scanner hobby listeners.

LAWTON CHILES
FLORIDA

COMMITTEES:
APPROPRIATIONS
BUDGET
GOVERNMENTAL AFFAIRS
SPECIAL COMMITTEE ON AGING
DEMOCRATIC STEERING COMMITTEE

United States Senate

July 17, 1986

Capt. William D. Mauldin
2268 NW 30th Road
Boca Raton, FL 33431-6371

Dear Bill:

I note your thoughts on S. 2575, the Electronic Communications Privacy Act of 1986. This legislation, introduced by Senator Patrick Leahy, has been spurred by concern over a lack of adequate Federal protection against the unauthorized access to electronic communications system computers to obtain or alter the communications contained in those computers. Problems also exist with regard to the legal protection afforded to cellular radio telephones, electronic pagers, and the private transmissions of video signals such as that used in teleconferencing.

S. 2575 sets to broaden the protection afforded voice transmissions to include all electronic communications systems unless designed to be accessible by the public. The legislation also contains criminal penalties for unauthorized access to the computers of an electronic communications system, if messages contained therein are obtained or altered. The bill imposes various safeguards before permitting law enforcement agencies permitted access. This measure has been referred to the Senate Judiciary Committee for further consideration.

Proponents of this legislation believe it goes a long way toward ensuring the legal protections of privacy and security for the new communications technologies. However, a number of tough questions remain to be answered. Chief among these is whether electronic communications systems which are not designed to

protect the privacy of the communications being carried should be afforded protection.

The Senate Judiciary Committee informed me that the bill has been modified so that ham radio operators and those individuals who listen to scanners are exempt from this legislation. Also the unintentional or accidental reception of prohibited transmissions will not be persecuted under the the bill.

I am grateful, as always, to have the benefit of your views on this issue. As Congressional action ensues, I will remain mindful of the points you have raised.

With kind regards, I am

Most sincerely,

LAWTON CHILES

ADDITIONAL COMMENTS

As this column is being written, I have not heard from Senator Paula Hawkins on this subject, but she has been excellent in past responses, so maybe I will have another letter to share with you next month. It is still mid-July as this column is being written, and the ACT has not yet passed the Senate vote. I feel, whether passed or not, the ACT will be with us for many years, in one form or another. I can only once again say a very sincere "thank you" to each one of you who took the time to write to your represent atives in both the House and Senate, to those of you who sent me copies of your letters and cards, and especially to Kurt Swaney and ANARC for the many hours of thought and effort that each one spent trying to protect the rights of us all!

CLOSING COMMENTS

What is RCMA? RCMA is a club, an association of club members with a common interest. Our interest in radio communications monitoring has bonded us together, and with the help of a few very devoted members, our editors, we have developed a medium for the exchange of information. This medium is our NEWSLETTER.

I constantly try to encourage each of you to send something, anything, to your favorite editor at least once or twice a year. I do this for a reason. The editors can not obtain and print information directly from any commercially produced directory, and few, if any, live near enough to the FCC regional offices to actually search the public flies for information. With you, the member, out there actually monitoring, RCMA has the largest reporting staff of any radio communications monitoring organization, and yet, some months our editors don't publish a column because no one has bothered to send in a report. Certainly, we all realize that every member can't write in every month. We don't expect you to do that. But, when your favorite column fails to cover your area, your state, or your special subject, did you ever ask yourself if you have done everything YOU could to submit information and encourage interest in your area.

I found when I was Editor of Public Safety Southeast, that a member submitted material on a certain area that other follow-up reports and corrections would come in for months afterwards. Activity generates activity. Why not make a commitment to yourself and the club to send in a report on just what you monitor at least once a year. If you will take just thirty minutes and do your part, and every other member will do the same, we will have a publication that is 2500 times better! Think about it!

AIRCRAFT

Send private, commerical, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

Darrel Charest, 1913F Oak Creek Lane, Bedford, TX 76022

After months of calling dealers around the country for the ICOM R-7000 receiver, one of our local radio stores called to say they had one for me. The price had gone up a little, however, and was now $150 more than it was when first ordered. After two gulps and a long swallow I said I'd be right down to pick it up. Following my return home, I carefully unpacked the radio and began reading the instruction manual - some 30 pages. Now it was time to go to Radio Shack for the "N" coax connector for the antenna. Radio Shack doesn't handle N connectors. Let's try some of the other electronics stores in the area - no luck here either. Almost forgot the dealer who sold me the radio, no he doesn't have them either but they are fairly common, especially in satellite TV installations. Satellite Supply said come on down, they had them. Problem was the individual who handles connectors would be out of the office the rest of the day. Let's take a look at ICOM Inc. maybe they could help. Good fortune shined on me when I discovered one of two factory service centers was right next door in Irving. They didn't handle the connectors either but suggested I try calling Seattle. The Seattle office didn't handle them either and gave me the name of an electronics supply company in California who could sell me the connector. Our catelog will be in the mail for you today I was told, and sure enough it arrived three days later. Sure enough there were the "N" connectors. One slight problem, though, the catelog specifies a minimum order of $100. To make a much longer story short, it turns out one of the wholesale electronics companies in Dallas stocks the "N" connectors and consented to selling me several. The price for two connectors was just over $18. Later I ordered several more from Houston where the price was $2 each. Has this been a frustrating experience? You know the answer to that question.

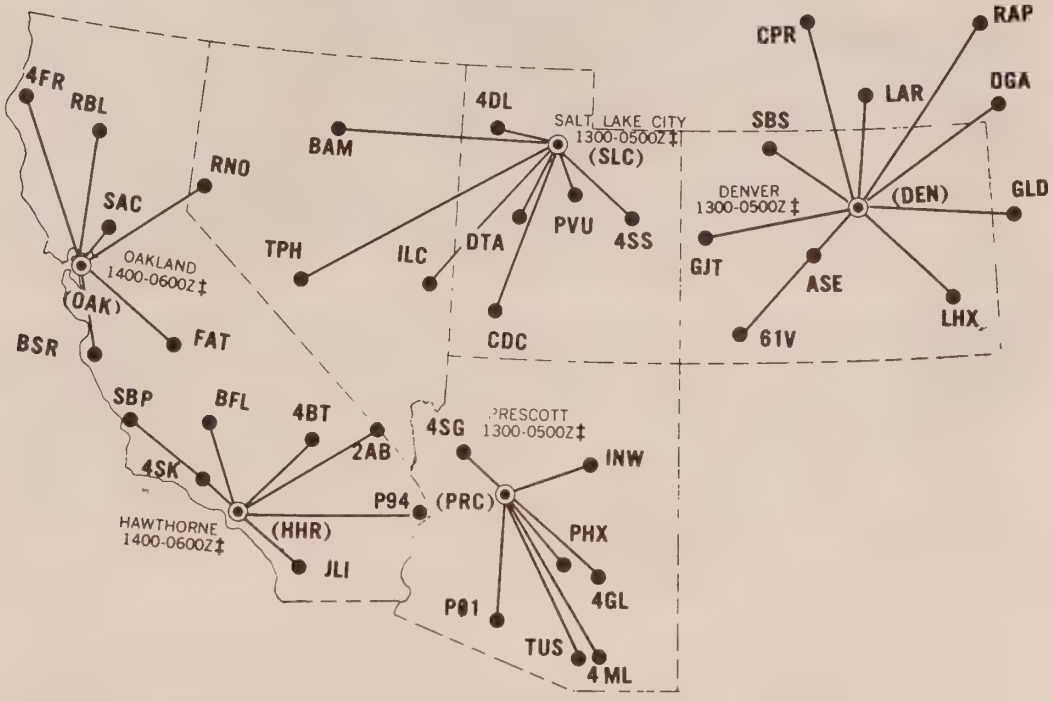
It was actually a week after buying the R-7000 before I got it in service. But the wait was well worth while. It is a superb radio. Initially the operation seemed a bit complicated, but that was also true of the Yaesu FRG-9600. Not only that, but the instruction manual was not always explicit. Even so, it has proven to be a pleasant learning experience with one hand on the controls of the receiver and the other holding the instruction manual. Sometimes I get the feeling the radio is a notch higher on the intelligence ladder than I. Twenty of the ninety nine memories can be used to store channels that might appear in a given range in the search mode. I assumed that as the receiver went through the search range, that if it hit the same channel three or four times while the memories were being filled, that I would find the same frequency programmed three or four times in the memory. Not so. Once a frequency had been written into the memory, on succeeding scans, it would recognize this and skip to another channel. Another most pleasant surprise for me was to discover that using the same antennas I could hear channels that had eluded me before. After three weeks with the R-7000 I've came to the conclusion the receiver is a very expensive piece of equipment - but worth every cent.

Last months mail brought a number of interesting letters as well as some frequencies. Among these was a letter from Civil Air Patrol Captain Michael G McDonald. Mike had read some references we had made in the July 86 RCMA Newsletter about the Civil Air Patrol. In addition to his informative letter he enclosed some literature on the Air Force Rescue Coordination Center and Search and Rescue Satellite Aided Tracking. Michael reports that in 1984 the AFRCC handled 30,000 ELT (Emergency Locator Transmitter) beacon reports resulting in 5600 incidents. About 97% were non-distress or in other words were false alarms. Last year the California CAP had 207 AFRCC missions for ELT signals and some missions involved more than one signal. Of these only 6 were actual distress incidents. Michael explains that the satellite relays the ELT signal to the Land User Terminal where it is plotted. Two points are calculated for every signal. These points may be several miles apart or as far apart as one on the West Coast and the other on the East. Several satellite passes are needed to determine which signal is real and which is a ghost. The system is supposed to be accurate within 5 to 10 miles.

Mike says he has seen it come within a quarter mile of the location and more than 20 miles off. Michael also reported that boats have their own version of the ELT and is called Emergency Position Indicating Radio Beacons which are activated when turned up side down. The aircraft ELT is activated by a sudden stop as might occur in a crash or an extremely hard landing. The FAA has also been helpful in locating lost aircraft by reviewing computer tapes that have been tracking the aircraft. This has been called NTAP for National Track Analysis Program. NTAP has proven to be very accurate, but requires considerable time and effort by computer specialists to retrieve and analyze the tapes. Mike did not mention the fact that most CAP members are unpaid volunteers who spend a large portion of their liesure time looking for pilots who failed to close their flight plan as well as others who continued to fly in conditions beyond their capability. Some pay the ultimate penalty, and a few are rescued by Capt. McDonald and his associates.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

Radio Call: Flight Watch-Freq. 122.0



◉ FLIGHT WATCH CONTROL STATION (FWCS)

● COMMUNICATIONS OUTLETS

LOS ANGELES CENTER, CA **KZLA (R) (E)** 132.5 284.7 **351.7 ARR-DEP US** – 119.0 126.0 126.4 **127.4** 128.05 **132.15** 133.4 **134.4 134.55 135.45** 269.5 285.5 285.6 291.7 **307.8** 322.4 327.1 **338.3 343.7 348.7** 350.3 **354.1 BAKERSFIELD** – d127.1 **133.05 135.3 263.0** d317.7 372.0 **BALDWIN HILLS** – **125.65** d128.2 **277.4** d351.7 **BARSTOW** – 132.3 d132.5 **133.55** 134.65 **135.575 279.8** d284.7 317.4 **314.2 351.9 BLYTHE** – d121.35 **135.45** d278.5 **307.8 BORON** – **132.625 283.6 CEDAR CITY** – d124.2 **127.35 135.25 135.55 299.2 306.3** d343.6 **346.3 JULIAN** – **(U)** 125.85 127.4 128.15 d128.6 **135.45 135.75 261.5** 276.3 d291.7 **307.8** 326.7 **346.4** 354.1 **KEELER** – **127.9 132.625 283.6 377.1 MOUNT POTOSI** – **(E)** d127.9 **132.625 283.6** d377.1 **NELSON** – 124.2 124.85 d134.65 d314.2 319.2 343.6 **ONTARIO** – 125.85 346.4 **RIVERSIDE** – d126.35 d290.2 **SADDLE PEAK** – d127.4 132.6 134.75 285.5 351.8 d354.1 **SAN LUIS OBISPO** – 124.15 d128.05 d269.5 327.8 **SANTA BARBARA** – d128.05 **132.15** 135.5 d269.5 **277.4** 327.1 **338.3 SELIGMAN** – d124.85 **133.2 134.95 282.3** d319.2 **323.2 TONOPAH** – 127.9 377.1 **TWENTYNINE PALMS** – **(E)** 128.15 **133.2 282.3** 285.6 **YUMA** – 121.35 278.5 **H-2, L-2-3-4-5, A-2**

Ⓡ **LOS ANGELES CENTER - 132.5** H-2, L-2-3-4-5, A-2 (KZLA)
Arr—Dep U.S. - 135.45 134.55 134.4 133.4 **132.15** 128.05 **127.4** 126.4 126.0 119.0
Bakersfield - 135.3 133.05 127.1
Baldwin Hills - 132.85 128.2 **125.65**
Barstow - 135.575 134.65 **133.55** 132.5 132.3
Blythe -135.45 121.35
Boron - 132.625
Cedar City - 135.55 135.25 127.35 124.2
Julian - 135.75 135.45 128.6 128 15 127.4 125.85
Keeler -132.625 127.9
Nelson - 134.65 124.85 124.2
Mount Potosi 132.625 127.9 127.9
Ontario - 125.85
Riverside - 126.35
Saddle Peak - 134.75 132.6 127.4
San Luis Obispo - 128.05 124.15
Santa Barbara - 135.5 **132.15** 128.05
Seligman - 134.95 133.2 124.85
Tonopha - 127.9
Twentynine Palms - 133.2 128.15
Yuma - 121.35

Iden B. Rogers, CA-RI-001 wrote in response to a request for information from one of our members in upstate New York. Iden reminded me that a number of government publications are available for a nominal fee that provide frequency information for a given area. Among these are the "Airport/Facility Directory. Another is the IFR Enroute Supplement. The Enroute IFR charts as well as the VFR Sectional maps are also a good source of frequency information. Most of these are available at your local airport or can be ordered from National Ocean Service, NOAA Distribution Branch NCG33, Riverdale, Md 20737. You may call them at (301) 436-6993. Iden mentioned that he was our first Aviation Editor in the Newsletter.

Ralph Persons FL-208 had read our story on antennas for apartment dwellers and wrote for more information. The TV rabbit ears I used were from an early Sony TV set and it was easy to inset a 300/75 ohm transformer directly at the antenna and turned out to be an excellent antenna. Using the rabbit ears without the transformer directly into coax cable only provided mediocre performance. Articles I had read in Monitoring Times and Popular Communications indicated that moving an antenna just a few inches could make a big difference in performance. My experiments proved this was true, not only in moving the antenna horizontally, but vertically as well. Sometimes 3 or 4 inches would change the signal from S-1 to S-5 or more.

James Bruce Rae, from Canada, sent an interesting letter that could have easily been submitted by Capt McDonald from the CAP. James refers to an article in his local newspaper that describes how the owner of a boat had taken the battery out of the ELT and inserted it upside down then placed the cap back on. Wave action jostled the unit about and eventually actuated it where it was picked up by a Russian Satellite then by Canadian Armed forces aircraft who were conducting exercises in the area. After narrowing the search to the harbor, the unit was tracked down using hand held receivers. James also included an article from the Toronto Globe and Mail concerning the working conditions, pay and benefits of radio operators at Gander Internatioal Airport. This article like many others in U.S. newspapers convey the message that controllers and radio operators are over worked and under paid. And this may be true in Canada, but no so in the U.S. where I've made my views known on this subject before. Anyway it's nice to hear from our Canadian neighbors.

Kevin Yell, from Seabrook, N.H. wrote for a copy of the ARINC frequencies and Allan Koenig, TX-178 asked for information on aircraft channels in the Dallas area.

Joe M Lewis, our Communications Profile Editor, is becoming a regular contributor to this column and his frequency list appears later.

E. R. Flynn, CASFO-17, has been working with Bill Tobin to program his radio and computer to receive the ACARS system. Mr. Flynn asked for and received frequencies associated with ARINC in the San Francisco area. Hope all of this works out for him.

Daniel McNulty, sent a number of frequencies and a letter describing the organization of a group known as Minnesota Radio Hobbyists with similar aims and goals of RCMA. Although Daniel's frequency list is similar to some we

have used before, I like the format and know it will be helpful to those in the Minneapolis area. Best wishes for success in your new group.

Here are some frequencies for the Tampa, Fla area provided by Joe M Lewis.

Air Florida	128.9	460.65
Ward Air Canada	130.15	460.675
Air Canada	129.05	460.7
United	129.3	460.725
Eastern	130.75	460.75
Ozark	129.775	460.8
Delta	129.5	460.825
Delta	129.9	
Pan American	130.0	460.85
Northwest	130.625	460.875

The following frequencies are provided by Major Willard M Hardman DC-011 and we will include more in the November Newsletter.

Norfolk

Colgan 129.15
Henson (Patrick Henry)..... 130.5
Federal Express Company..... 131.925
Flight International..... 131.775
US Air 130.1

Richmond

Eastern..... 130.7
Piedmont..... 129.8

Washington Dulles International
(IAD)

Aeroflot....Handled by Pan American
AIRINC (ATL) Comm Center Relay..... 131.25
(Pan American)
AIRINC (SFO) Comm Center Relay..... 130.425
(TWA, United)
Air Wisconsin.....Handled by United
American Airlines..... 129.225
American (ACARS)..... 131.55
American (Ground Agents)..... 460.775
American Eagle (Air Virginia)..... 131.95
Braniff..... 129.175
Britisn Airways (Speedbird)..... 129.15
British Airways (Ground Agents)..... 460.7
Colgan..... 129.65
Continental..... 129.925
Continental (Ground Agents)..... 460.85
Delta..... 131.85
Delta (Ground Agents)..... 460.825
DHL Company..... 131.625
Eastern..... 130.975
Eastern (Ground Agents)..... 460.75
Federal Express Company..... 131.925
Luftwaffe (German Air Force)....(Unicom)..... 122.95
Luftwaffe (Ground Agents)..... 409.2
New York Air (Apple)..... 131.275
New York Air (Apple).(Back-up)..... 130.4
New York Air (Apple).(Back-up & Enroute)..... 131.225
New York Air (Ground Agents)..... 460.875
Northwest Orient Relay..... 131.7
Page Avjet.(Ground Agents)..... 460.825
Pan American.(Clipper)..... 129.7
Pan American (Ground Agents)..... 460.65

People Express.....130.525
Presidential (Eagle).....131.725
Royal Air Force..(Ascot).....(Unicom).....122.95
RAF (Ground Agents).....460.825
Republic.....131.75
Trans World (TWA).....130.225
TWA (Ground Agents).....460.675
United.....129.3
United (Ground Agents).....460.725
US Air.....130.1
Western.....130.55

N.B. Several ground frequencies are currently being shared, e.g., 460.825.

Washington National
(DCA)

AIRINC (ATL) Comm Ctr Relay.....131.0
American Airlines (ACARS).....131.55
Commuter Airlines '.....129.0
Eastern.....129.875
Henson.....131.65
Jetstream International.....129.3
Jetstream International (Ground Agents).....460.725
Midway.....131.325
New York Air (Apple).....130.4
Northwest Orient (Ramp).....130.35
Northwest Orient (System Relay).....131.7
Pan American (Clipper).....129.7
Pan American (Ground Agents).....460.65
People Express.....130.525
Piedmont.....129.8
Piedmont.....131.65
Trans World (TWA).....130.625
TWA (Ground Agents).....460.675
United.....129.3
United (Ground Agents).....460.725
US Air.....130.1
US Air (Ground Agents).....460.7

1-Commuter airlines operate out of a special terminal operated by Butler Aviation. Carriers using this terminal include Suburban, Henson, Colgan, Brockway, Air Virginia, Pilgrim and Pocono.

AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet ratio, amateur TV, etc., to:

Terry Stader, MI-062, 8 Christopher Road, Westford, MA 01886

Greetings..... Welcome to the October edition of amateur radio. Sorry to disappoint you last month with no column, but things have been a little hectic around here. I just got back from spending two weeks for **Uncle Sam's Canoe Club** (in the Navy Reserves) down in the Norfolk, Virginia area in the sweltering heat(July 12-27). You all can have that heat, I'll enjoy the 3 weeks of summer we get here in New England. I got to work on some pretty interesting gear while I was there. The U.S. Navy has gotten a little more sophisticated since when I got out after 7 years of Active Duty in 1978. These last couple of weeks I worked with a rack of equipment most hams, SWLer's and scanner buffs would have drool over..... believe me, I did. The rack had a spectrum analyzer and accessories that covered **DC to LIGHT** hooked up to a 135 foot tower/antenna structure that allowed me almost instant frequency, signal type and other data about any transmission

that I could see on the screen, with resolution down to 1 HZ! It was rough trying to figure out whether I was working or having a good time.

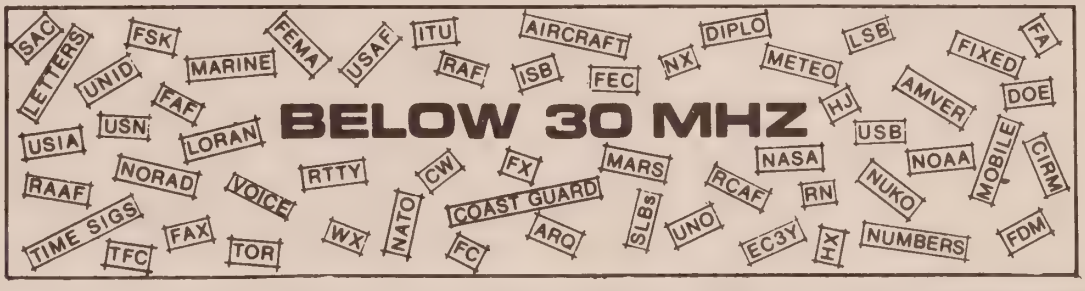
I did take my car down there so I could communicate on 2 meters, 220 (absolutely nothing in the Tidewater area) and 440. Brought the H/T's, scanners, Monitor America and the portable antennas and enjoyed myself. It was rough.... but somebody had to do it! And anyone who talked to "Kilowatt Alpha 8 Serious Code Practice" (KA8SCP phonetically) and kept me awake on the way down and back, THANKS for the QSO. As soon as I can compile the information (type it up so someone could read it what I really meant), I will send it on to **Dennis, the Federal Gov't and Military Editor.**

By the way of inputs..... there absolutely were none these last two months. Sorry, but even I do run ought of steam once and awhile. I could just copy some information out of CQ, HAM Radio and 73 Magazine if you wish, but I thought you might want more than that? I don't want to sound like a broken record and copy what some of the other Editor's have said but.... I cannot believe that no one out there took a summer vacation and actually confirmed some frequencies in use. What did you hear on those freqs.? None of the editors are asking you to break the law by quoting was said on the air, but maybe you heard some activity that was interesting. This information may not really do anything for you..... but another listener may find in your input, information about a freq. he has been looking for. We (all of us monitor radio enthusiast) enjoy many facets of listening.... help others out by passing on what information you have.

If you don't have any input for the column as far as frequencies, what would you like to see me spend some time on? Radio wave propagation? Where to find what kind of radio transmissions? You tell me.

Thanks for your past contributions those of you that have sent items in.... and for those of you that haven't.... well, just keep me in mind.

de KA8SCP



This column is for HF AM, CW, SSB, RTTY and FAX reception reports, note, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations — essentially everything except broadcasting, CB and amateur radio.

Send reports to: Geoff Halligey, 85 Southwood Road, Cottingham, England, HU16 5AJ.

THE SPY

Well, we have gained a little more knowledge. On June 19, at his usual time, 0745 UTC, he was clearly giving instructions to, perhaps, a new operator at the other end. This day's callsign was SVO and after initial contact was established he sent 'PSE ALL DAY WRK FOR QTR 0845 MEZ QSY 42 PLUS 2 FB VY TKS 73/88 VA'.

Which can be translated as 'PSE CALL EVERY DAY AT 0845 MEZ ON CHANNEL 42 PLUS 2' (Plus 2 kHz ?). But here is the giveaway: MEZ is the German abbreviation for Mittel Europaische Zeit, or Central European Time, one hour ahead of UTC. Also he confirmed only one schedule per day.

So our friend will be in East or West Germany, or, less likely, Austria. Most of Europe, as far east as Poland, is on Central European Time, but only German speakers would use the abbreviation MEZ.

On July 3 he used the call 'GB5 de GT4', but this was the only time this type of call has been heard. Normally the calls are 3-letters, like QKJ, SIO, BSF, TRF, BSG, 8JF, KMI, TGF or OLD.

On July 10, using the call POU, he sent 'QSL NR 31', but it must have been a very short message that was received. No other QSLs have ever been heard, but of course it is not possible to listen every day.

BOOK REVIEW

'Guide to World Teletype RTTY Stations, 1.6 to 30 MHz', by Jeorg Klingenfuss, published in the US by Universal Electronics, Inc, 4555 Groves Rd, Suite 13, Columbus, OH.

The author says, in his preface, that the book's contents 'is built exclusively on continuous monitoring of the radio spectrum during 1985 and checked against official monitoring information'.

This method of compilation may give up to date accuracy as regards the stations included, but it is quite evident from comparison with the Swiss Polyverlag 'RTTY Handbook' (reviewed last month in this column) that the relatively small number of stations recorded by Klingenfuss severely limits the value of his guide.

Taking one page at random - 10,470.3 to 10,795.0 kHz - there are 54 entries. Against this the Swiss guide has more than double this number - 126. Ferrell's CFL6 lists around 200 stations in the same frequency span.

Or take 11,538.0 kHz, an INTERPOL channel. The Swiss book lists 12 stations, Klingenfuss just 2.

Klingenfuss has a very good list of Abbreviations and a callsign list, but it is a bit tiresome to find an abbreviation like 'wtsca' in the text (with third shift Cyrillic alphabet).

The printing is computer generated, with some of the letters 'filled in', thus making reading somewhat difficult, but otherwise a useful 'back-up' book, remembering that it is of European origin.

THIS MONTH'S LOG

6986	CW/RTTY	P	This station regularly sends P like an ordinary Channel Marker, but breaks off to transmit both high-speed morse (Cyrillic characters) and RTTY, then resumes P. Has also sent UMS plus the usual 5FG, although a correspondent reckons that UMS is not a callsign, but an operational prefix. Earliest heard 0728, latest 1845.
15024	CW	RFNV	Moscow calling COL (Havana, Cuba). Also USB on this frequency used by Aeroflot on its Moscow-Havana services. 1401

That's all for this month, best wishes to all,

Geoff

BUSINESS, ETC.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.) General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Send Business monitoring information East of the Mississippi to:
Brandt Niemuth, P.O. Box 541, Rosemont, IL 60016

Thought for the month: Concentration; The ability to do your child's homework while he is watching television. (OUCH!!!)
On to this months' column. the first is from Scott Glicker (FL-033):

463.25	WNAD507 Citywide Security (F-1)	Hollywood, Fla
463.575	WNAD507 Citywide Security (F-2)	Hollywood, Fla

F-1 is Dispatch with F-2 rarely used, ID's as "Delta One" and is located in central Broulard County, Fla.
Next is a contribution from a regular source (for the entire newsletter,,at that), fellow editor Joe M Lewis (MD-015):
Walt Disney World Hotel update:

461.15	KNJK933 Raddison - Main Gate	
464.05	KNEU410 Confort Inn	
463.575	KUL 433 Ramada Inn	
464.475	KNJC569 Travel Inn	
464.375	KNDC963 Holiday Inn	
464.325	WYB 990 Sheraton - Lakeside	

Key West, Fla Freqs:

151.685	KNHQ655 Old Town Trolley	
151.775	WXX 371 Central Alarm Service	
151.805	WZG 836 Travel Lodge	
151.775	KNCQ226 Holiday Inn	
461.55	KNCW229 Island Security	
462.175	KNCW229 Island Security	

Hilton Head, South Carolina area:

35.72	KEW 220 Sea Pines Plantation	
151.745	KLW 951 Palmetto Dunes Resort	
151.895	KUH 292 Hilton Head Hotel	
154.54	KNCT351 Sea Crest Motel	
461.225	KNCB597 Long Cove Club	
461.525	KNCB633 Sea Pines Security	

Other Florida Business:

462.45	KUW 723 Maxwell House Coffee	Jacksonville
462.325	WRB 549 81 Regis Paper	Jacksonville
153.395	KNCH702 Coca Cola	Aurbandale
463.475	KRA 748 Coca Cola	North Miami
457.05	WNBW693 Coca Cola	Orlando
457.275	WNBE535 Coca Cola	Orlando
457.4	WNBE 536 Coca Cola	Orlando
457.775	KNHK975 Coca Cola	Orlando
462.35	KZP 550 Tropicana	Bradenton
152.99	KCU 641 Kraft	Lakeland
153.125	KGD 507 Lykes Brothers Meats	Dade City
*806.1125	WGN 538 Lykes Brothers Meats	Dade City
*806.2875	WGN 538 Lykes Brothers Meats	Dade City
*806.6875	WGN 538 Lykes Brothers Meats	Dade City
462.35	KNAK948 Publik Supermarkets	Lakeland
151.925	KNCR218 Del Monte Foods	Tampa
154.515	KNCR218 Del Monte Foods	Tampa
462.225	WNBX471 A I & T	Orlando
154.515	WSX 822 Southland Corp	Orlando
451.675	KNAW563 Westinghouse	Orlando

(*) note: these are repeater inputs, outputs are 45 mhz up.
Thank you, gentlemen, for your efforts. Please remember (as another editor had put it), garbage in, garbage out. If I can not read it, neither can you.

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

Rob Berezowski, 310-4045 Rae St, Regina, Saskatchewan, Canada S4S 6Y8

Well, I'm back from Expo. What a show! I had a fantastic time, and if anyone is thinking of going (and if it's not too late), by all means go. I took my pocket scanner along and was listening on site, but I was so absorbed by Expo that I didn't listen very much. To the members that I had the pleasure of meeting (Mike, Sid, Colin and Harry), thanks again for your hospitality. Now, it's back to the grind, and to catch up on all my letters.

While on the subject of Expo, I have one more letter from Sid (CANA-109). Sid has found the following:

Canada Pavilion Security/Operations	412.4625/417.4625in
Pan Pacific Hotel	411.9875/416.9875in

The Canada Pavilion is the only Pavilion that is not on the main Expo site. It is the largest, and undoubtedly the best pavilion. The Canada Pavilion also serves as a large cruise ship terminal, and will be one of the few pavilions that will not be dismantled after Expo closes. The Pan Pacific Hotel is part of the complex. Sid says that 412.4625 is very busy during the hours the Pavilion is open to the public.

As I mentioned above, I did some listening on the site. Sid and I have both tried to find the frequency used by the Monorail. Sid indicates that he has been told the Monorail is on 422.8625 (Simplex), but it is not confirmed. Here is a list of the Expo frequencies and their usage:

422.6875(R)	Ch 9	900 units
422.7375(R)	Ch 1	Security (200 units) Fire Units (Foxtrot units) First Aid Medics (280 units)
422.7625(R)	Ch 6	100 units Marine staff (170 units) ⋆ 600 units
422.7875(S)		Entertainment (500 units Simplex)
422.8125(S)		(Unknown)
422.8625(S)		Monorail (unconfirmed)
422.8875(R)	Ch 4	Entertainment (500 units)
422.9375(R)	Ch 2	Security (secondary channel) 700 units
422.9625(R)		(Unknown)
422.9875(R)		Ride Maintenance (300 units)
460.6125(R)		(Unknown, but Sid indicates units are heard being sent to buildings all over the site. Perhaps it is maintenance, repair, or some kind of delivery)
460.6375(R)		(Undetermined - many different services have been heard on this channel)
460.9125(R)		Maintenance (400 units) (Many other different site services are using this channel)
461.7375(R)		Concessions

⋆ - Marine staff refers to the personnel operating the free Expo Ferries running from docks at the East, West & Centre gates. The ferries can be heard on Ch 66A 156.325.

Many of the pavilions were also using their own radios for operations and guest control. Through my own listening I found the Ontario Pavilion on 458.6625(S).

In his letter, Sid reports that the CP Rail Police in the

Vancouver area now have a telephone patch interconnect operating on their frequency 159.885. Simplex is still used on this channel for dispatch operations.

Sid also believes the CN Rail Police are now operating on 800 MHz, possibly using the cellular telephone network. Sid is no longer hearing them on 160.215 or 160.305. Sid saw one of the new units, and although the flexible antenna on the handheld seemed a little long for 800 MHz, it did not look like a VHF or UHF antenna. "It was thin and fixed solid with no BNC connector," says Sid. "The unit featured a touch tone pad like the car cellular phones."

A new type of security service is now operating in Vancouver and Surrey. All-Year Neighborhood Patrol provides 24 hour security patrols of neighborhoods, with between 24 and 48 patrols every 24 hours. The patrol cars are well marked and highly visible. The idea is to prevent residential crime, but the units are equipped with radios (operating on 169.440 according to Sid) to summon police. The cost is reasonable, only $15 per month per household, but about 70% of the residents must subscribe to the service for the security firm to break even.

Sid sent in a correction to one of my previous lists. 169.470 is used by the Greater Vancouver Regional District (rather than Grouse Mountain). The GVRD provides essential region-wide public works services like water, sewer, parks, air pollution control, garbage collection, and planning and information services. The GVRD includes all the municipalities from Lions Bay and Bowen Island south to White Rock, and as far east as Coquitlam.

Sid reported that during a recent mountain Search and Rescue operation, the volunteer search forces were using 158.865 Ch 1, 158.910 Ch 2, and 149.495. They were searching for a woman on the North Shore. A helicopter on 158.865 found the woman 14 hours later. Sid says that the operation was very professional, especially when one realizes that these are all volunteers.

To end off, Sid mentions that the Victoria Police have increased transmitter power and/or started using a new repeater site for 155.550 MHz. The received signal in Vancouver is now much stronger. Thanks once again for your all of your information, Sid.

Column readers have probably noticed that over the past few months I've been giving Western Canada more emphasis than Eastern Canada. I hope the Eastern readers haven't been offended, but it was important to highlight Expo 86, and frequencies for the Vancouver region. Expo will end in 11 weeks, and I felt that any and all information should be put in the column as quickly as possible in the event that any members might be visiting Expo.

To try to balance the scales, the remainder of this column (and probably some of the next one) will be devoted to Eastern Canada that I've been putting aside. I've always been trying to keep a good balance, but I can only publish what I receive. I don't like to "create" material for other parts of Canada from my files. I much prefer to only print up to date lists compiled from local monitoring sent in by members. So, if you want to see material for your area, send it in yourself. I guarantee that it will be published as quickly as possible.

Tom (CANA-084) sent in an article from the London Free Press of March 6, 1986 on the subject of the new Ontario Provincial Police (OPP) system. The Ontario government has approved $106 million in grants to provide the OPP with "the best telecommunications network of any law enforcement agency in North America." It will take 3 to 5 years to erect 148 towers across the province. Once the network is in place, officers will have communications in and out of their cruisers, as well as communications with other police forces (using the Ontario Police Commission common channel 142.770/138.750). A pilot operation in the London area successfully passed the testing phase.

Tom also saw a local television news story on the new radio system. They reported that the OPP expects the system to be in operation in the London area before next year. The rest of the province should be in service by 1990.

To assist those members who have recently joined RCMA, I'd like to take a few paragraphs to review the many features of the new OPP system. This information was in my column in 1982, but I think it is

well worth repeating. The information was all provided by Chris (CANA-061).

Computers will form an integral part of the entire communications system. A computer aided dispatch system will be used, as well as computers to control the radio system. Dispatch for each District will be centralized in the District HQ. The console for each dispatcher features a video monitor with information on calls for dispatch, a list of all units assigned to that dispatcher, and the status of each unit. The consoles also have controls for the manual radio channels (which I will explain in a minute), and the entire communications centre will run on "uninterruptable power," with an emergency supply of about 36 hours.

The new VHF OPP network will cover the entire province south of Gravenhurst, using 148 towers as mentioned above. The total coverage area for the network will be about 250,000 square miles. If you think about that for a minute, you realize the size and complexity of this network. The present VHF Low Band system will continue to be used in the sparsely populated areas north of Gravenhurst. It is simply not economical or practical to service this area, so longer range VHF Low was chosen.

The new OPP radio system will feature both automatic and manual modes. The five different operating modes are Normal, Tactical, Simplex, Common, and Telephone. The new radios are Motorola Centracom digital synthesis radios, and feature a keypad, status buttons, and an LED readout. The system will operate on frequencies between 141 and 143 MHz.

In the Normal mode, a computer controlled trunked system will be used to communicate with the dispatcher. Each tower in the system is assigned a group of radio channels, and these transmitters are controlled by the computer. Overall there are nine groups of channels, and each OPP District will have several towers. A clear channel on each tower continuously transmits a digital idle marker which identifies the district and tower number. The idle marker will not be heard by the officers or the dispatcher. Each mobile radio operating in a given tower area automatically locks onto the channel on which the idle marker is being transmitted.

When an officer wishes to communicate with either the dispatcher or another unit, he pushes the Request to Talk (RTT) button. The radio will signal the main computer, and will identify the unit calling. The unit number will flash onto the dispatchers video screen. At this point the computer will move the idle marker to another clear channel, and all <u>other</u> units will follow the idle marker to this channel. The dispatcher and the patrol officer can now talk to one another. The dispatcher can also initiate the contact, and he/she can simultaneously contact any number of units, or a group of units. The Normal mode will be used for routine calls and traffic, including CPIC checks. Once the communication has ended, the mobile radio will then seek the idle marker and move to that channel, standing by for the next signal.

Another automatic mode is Tactical. In this mode, the trunked radio channels are used, but several units are "frozen" on one channel. This allows direct communications between cars involved in the emergency situation. Units not involved in the situation can continue normal operations in Normal (or any other) mode.

The third automatic mode is Telephone. This mode will not be available in the initial system installation, and when it is installed, its use will be highly restricted, and determined by OPP policy.

The other radio modes are manual modes. Simplex mode allows car to car and car to dispatcher communication on a simplex channel (primarily 140.970). Special Services will also have restricted Simplex channels that will not be available in regular patrol cars.

In the event of a fault in the computer system, Simplex will be used as a backup in much the same manner as the present system. Simplex communication will be the only communication for small boats, motorcycles, and other vehicles not capable of accomodating the complete mobile radio control package because of vibration and weather exposure.

Common mode allows communications with other Ontario police departments using the common channel 142.770/138.750in. Neither Common or Simplex modes use the computer.

Status keys are also available on the new mobile radios. On his/her video display, the dispatcher will have a list of the status of each unit (available, enroute, at scene, at detachment, off duty). The

patrol officer can quickly update his status by the press of one of the status keys on his radio. This feature uses the computer and the automatic channels.

Because of underestimates of costs and a lack of additional funding, the entire system has been on hold for several years. Now, with the announcement that $106 million is now available, the proposed system can finally become reality. Thank goodness, and none too soon either. Initially the system was scheduled for system-wide service November, 1983. Now, the best estimate is 1990.

The new OPP system is very complex, and I hope you all found the information on the system given above very interesting. But now to the real question, can we monitor them?

The answer is yes, it's possible to monitor them with our present equipment. According to the information I have (quite authoritative), the system will be tough to monitor, but not impossible. When scanning the automatic channels, your scanner will lock onto the channel carrying the idle marker. Unfortunately the next conversation will also appear on this channel, meaning one has to listen to the digital idle marker until it is replaced by voice. This can very quickly become very annoying. Of course, there is no problem monitoring the simplex channels.

Getting back to the letter from Tom (CANA-084), he says he has been trying to find some sort of filter for the OPP digital idle marker. Tom has found out that there is a place in Toronto that has designed a filter for the Toronto Metro Police marker tones. Tom is hoping that they (or someone) can manufacture a filter. The construction of an appropriate filter may be possible, but the degree of difficulty strongly depends on the modulation scheme used. The spread of audio frequencies to be filtered would have to be narrow in order for normal speech to be unaffected. It would also be very difficult to retrofit this filter into the scanner squelch circuit to prevent the scanner from locking up on the marker channel. This problem could by overcome by devoting one scanner exclusively to OPP. In this case, lockup would not be a problem. Anyway you do it, it won't be easy. If any member has any suggestions regarding this filter, Tom (and undoubtedly several other Ontario members) would certainly be interested. Thanks for writing in, Tom.

It pleases me to welcome a new Canadian member of RCMA. His name is Gregory (CANA-126), and he lives in Kitchener, Ontario. Welcome aboard, Gregory. Gregory has sent in the following information for the Kitchener area:

Waterloo Regional Police	142.185
" " "	142.315
" " "	142.585
" " "	142.620
" " "	142.815

Gregory writes that the Waterloo Regional Police is divided into 4 Divisions. Headquarters (#1 Division) is in the City of Kitchener, #2 Division is the City of Cambridge, #3 Division is the City of Waterloo, and #4 Division is in New Hamburge, with each city having its own precinct.

Ontario Provincial Police (OPP) Kitchener (and points East)	41.960
" " " " " " "	42.020
Kitchener Fire Dept (City)	152.915
" " " (Regional)	151.010
Waterloo Fire Dept (City)	154.010
Cambridge Fire Dept	154.650
Guelph Fire Dept	153.770
Kitchener/Waterloo Regional Ambulance	154.770
Ont Min of Transportation Kitchener	143.955
Waterloo Airport Tower	126.000
Kitchener Public Works Dept	169.155
" " " "	169.230
" " " "	169.290
" " " "	169.335
Waterloo Public Works Dept	169.560
" " " "	169.590

Ont Motor League Waterloo 165.990

Thanks for the letter, Gregory. I know you'll profit from your RCMA membership, and I hope we'll be seeing more contributions from you in the future.

That's all the space I have for this month. Until next month, take care everyone.

COMMUNICATIONS PROFILE

Joe M. Lewis, 750 Scotland St., Dunedin, FL 33528

This column is for special projects that explain various systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

WELCOME TO THIS MONTH'S COLUMN. THIS MONTH WE LOOK AT THE SUFFOLK COUNTY FIRE COMMUNICATIONS IN NEW YORK, SENT BY JOHN, NY-306. NEXT MONTH, A LOOK AT WESTERN KANSAS EMS BY DON GRUVER, KS-010. AS OF THIS WRITING, JULY 26, 1986, I HAVE NOT RECEIVED ANYMORE MATERIAL FOR THE COLUMN, PLEASE SEND A PROFILE OF YOUR AREA, EVEN IF IT IS SMALL. INSTEAD OF UNCLE SAM WANTS YOU, " JOE WANTS YOUR PROFILE". AND NOW ON TO SUFFOLK COUNTY:

SUFFOLK COUNTY FIRE CONTROL KEG-977

CHANNEL	1	46.46	COUNTYWIDE
CHANNEL	2	46.34	DIVISIONS 1,2,8,9,10
CHANNEL	2	46.44	DIVISIONS 3,4
CHANNEL	2	46.40	DIVISION 5
CHANNEL	2	46.48	DIVISIONS 6,7
CHANNEL	3	46.38	MUTUAL AID
CHANNEL	4	46.30	FIREGROUND PORTABLES
KYK-329		45.88	NEW YORK STATE MUTUAL AID
KXZ-882		155.28	FIRE OFFICALS PAGER

SUFFOLK COUNTY MEDICAL CONTROL (MEDCOM)

KXZ-881	155.28	AMBULANCE DISPATCH,EAST
KXZ- 882	155.28	AMBULANCE DISPATCH,WEST
KZB-406	155.325	AMBULANCE TO HOSPITAL

FIRST DIVISION--- TOWN OF BABYLON

1-0-0	KCR-911	BABYLON TOWN CENTRAL ALARM
1-0-*		DEPT. OF FIRE PREVENTION
1-1-0	KCZ-913	AMITYVILLE FIRE DEPT.CH.2 45.20
1-2-0	KEG-696	BABYLON FIRE DEPT.
1-3-0	KEE-791	COPAIGE FIRE DEPARTMENT
1--4-0	KEE-444	DEER PARK FIRE DEPARTMENT
1-5-0	KEC-765	EAST FARMINGDALE FIRE DEPT.
1-6-0	KEJ-334	LINDENHURST FIRE DEPT.
1-7-0	KCW-707	NORTH AMITYVILLE FIRE DEPT.
1-8-0	KEE-576	NORTH BABYLON FIRE DEPARTMENT
1-9-0	KEF-222	WEST BABYLON FIRE DEPT.
1-10-0,	KED-636	WYANDANCH FIRE COMPANY
1-11-0	KEJ-881	NORTH LINDENHURST FIRE CO.
1-20-0		WYANDANCH-WHEATLEY AMBO. CORP.

SECOND DIVISION- TOWN OF HUNTINGTON:

2-0-*		DEPT. OF FIRE PREVENTION
2-1-0	KEE-218	COLD SPRING HARBOR FIRE DEPT.
2-2-0	KED-753	HALESITE FIRE DEPARTMENT
2-3-0	KEC-760	HUNTINGTON FIRE DEPARTMENT
2-4-0	KEB-687	HUNTINGTON MANOR FIRE DEPT
2-5-0	KEE-488	MELVILLE FIRE DEPARTMENT
2-6-0	KEE-667	CENTERPORT FIRE DEPARTMENT
2-7-0	KED-275	GREENLAWN FIRE DEPARTMENT
2-8-0	KEG-508	DIX HILLS FIRE DEPARTMENT
2-9-0	KEF-577	NORTHPORT FIRE DEPARTMENT
2-10-0	KEG-216	EAST NORTHPORT FIRE DEPT.
2-11-0	KEG-440	COMMACK FIRE DEPARTMENT
2-12-0	KJB-979	EATON'S NECK FIRE DEPARTMENT
2-13-0	KCB-576	NORTHPORT V.A. HOSPITAL FD.

2-14-0	KYH-360	SUFFOLK STATE SCHOOL F.D.
2-15-0	KQT-860	HUNTINGTON COMMUNITY FIRST AID
2-16-0	KQS-552	COMMACK VOL AMBO CORP.

THIRD DIVISION--- TOWN OF ISLIP

3-0-*		DEPT. OF FIRE PREVENTION
3-1-0	KEB-485	BAYSHORE FIRE DEPARTMENT
3-2-0	KEC-863	BRENTWOOD FIRE DEPARTMENT
3-3-0	KLR-372	EAST BRENTWOOD FIRE DEPT.
3-4-0	KEC-849	ISLIP FIRE DEPARTMENT
3-5-0	KEE-949	EAST ISLIP FIRE DEPT.
3--6-0	KEE-932	ISLIP TERRACE FIRE DEPT.
3-7-0	KED-299	CENTRAL ISLIP FIRE DEPT.
3-8-0	KEC-785	HAUPPAGUE FIRE DEPT.
3-9-0	KNAS-382	GREAT RIVER FIRE DEPARTMENT
3-10-0	KEC-721	WEST SAYVILLE FIRE DEPARTMENT
3-11-0	KEB-659	SAYVILLE FIRE DEPARTMENT
3-12-0	KEF-355	BOHEMIA FIRE DEPARTMENT
3-13-0	KED-311	LAKELAND FIRE DEPARMENT
3-14-0	KEC-904	BAYPORT FIRE DEPARTMENT
3-15-0	KEF-434	HOLBROOK FIRE DEPARTMENT
3-16-0	KYK-559	FAIR HARBOR FIRE DEPARTMENT
3-17-0	KEH-937	WEST ISLIP FIRE DEPARTMENT
3-18-0	KEC-621	SALTAIRE FIRE DEPARTMENT
3-19-0		POINT O' WOODS FIRE DEPARTMENT
3-20-0	KNAX-370	OCEAN BEACH FIRE DEPARTMENT
3-21-0	KYG-770	KISMET FIRE DEPARTMENT
3-22-0	KYU-436	ISLIP-MACARTHUR AIRPORT F.D.
3-23-0		DUNEWOOD FIRE DEPARTMENT
3-24-0	KNDL-864	BAYSHORE-BRIGHTWATERS RESCUE
3-25-0	KTQ-278	BRENTWOOD LEGION AMBULANCE
3-26-0	KNGL-840	CENTRAL ISLIP HAUPPAUGE AMBO
3-27-0		EXCHANGE AMBULANCE OF THE ISLIPS
3-28-0	KNAU-378	SAYVILLE COMMUNITY AMBO INC.

FOURTH DIVISION TOWN OF SMITHTOWN

4-0-*		BUREAU OF FIRE PREVENTION, INSPECTORS
4-1-0	KEC-731	KINGS PARK FIRE DEPARTMENT
4-2-0	KEB-629	SMITHTOWN FIRE DEPARTMENT
4-3-0	KEE-843	ST. JAMES FIRE DEPARTMENT
4-4-0	KEF-695	NESCONSET FIRE DEPARTMENT
4-5-0	KNBU895	NISSEQUOGUE FIRE DEPARTMENT
4-6-0		KINGS PARK PSYCHIATRIC CENTER F.D.

FIFTH DIVISION---- TOWN OF BROOKHAVEN

5-0-*		DEPT. OF FIRE PREVENTION, INSPECTORS
5-1-0	KEC-698	BELLPORT FIRE DEPARTMENT
5-2-0	KEE-895	BLUE POINT FIRE DEPARTMENT
5-3-0	KEB-614	BROOKHAVEN FIRE DEPARTMENT
	KNFL-984	BROOKHAVEN FD 46.52
5-4-0	KEC-443	CENTER MORICHES FIRE DEPT.
5-5-0	KEE-982	CENTEREACH FIRE DEPARTMENT
5-6-0	KAW-745	CORM FIRE DEPT.(HIGH BAND,154.13)
5-7-0	KEG-617	EAST MORICHES FIRE DEPARTMENT
5-8-0	KEE-696	EASTPORT FIRE DEPARTMENT
5-9-0	KDU-503	GORDON HEIGHTS FIRE DEPARTMENT
5-10-0	KEE-543	HAGERMAN FIRE DEPARTMENT
5-11-0	KEF-805	HOLTSVILLE FIRE DEPARTMENT
5-12-0	KED-284	MASTIC FIRE DEPARTMENT
5-13-0	KEC-646	MASTIC BEACH FIRE DEPARTMENT
5-14-0	KEE-462	MEDFORD FIRE DEPARTMENT
5-15-0	KAY-976	MIDDLE LSLAND FIRE DEPARTMENT
5-16-0	KBQ-231	MANORVILLE FIRE DEPARTMENT
5-17-0	KEC-600	NORTH PATCHOGUE FIRE DEPT.
	WMBL-282	NORTH PATCHOGUE FIRE COMM. 46.58
5-18-0	KUN-448	FARMINGVILLE FIRE DEPT.
5-19-0	KED-236	PATCHOGUE FIRE DEPARTMENT
5-20-0	KDE-228	BROOKHAVEN NATIONAL LAB FD
5-22-0	KEF-810	RIDGE FIRE DEPARTMENT
5-24-0	KEH-443	RONKONKOMA FIRE DEPARTMENT
5-25-0	KDP-450	SELDEN FIRE DEPT.

5-26-0	WRZ-693	CHERRY GROVE FIRE DEPARTMENT
5-27-0	KBQ-231	DAVIS PARK FIRE DEPARTMENT
5-28-0	KFT-228	FIRE ISLAND PINES FIRE DEPT.
5-29-0	KYS-817	OCEAN BAY PARK FIRE DEPT.
5-30-0	KEH-603	YAPHANK FIRE DEPARTMENT
5-33-0		PT. JEFFERSON VOL. AMBO CO.
5-34-0		MEDFORD VOL. AMBO COMPANY
5-35-0	KGX-646	STONY BROOK UNIV. VOL AMBO
5-37-0		MASTIC AMBULANCE COMPANY
5-38-0	WSL-760	SHIRLY COMMUNITY AMBULANCE
5-40-0		MANORVILLE COMMUNITY AMBULANCE
5-47-0		MORICHES COMMUNITY AMBULANCE
5A-1-0	KEC-369	PORT JEFFERSON FIRE DEPARTMENT
5A-2-0	KEF-326	SETAUKET FIRE DEPARTMENT
5A-3-0	KEH-303	STONY BROOK FIRE DEPARTMENT
5A-4-0	KEE-750	TERRYVILLE FIRE DEPARTMENT
5A-5-0	KGK-648	MT. SINAI FIRE DEPARTMENT
5A-6-0	KEI-897	SOUND BEACH FIRE DEPARTMENT
5A-7-0	KAT-574	ROCKY POINT FIRE DEPARTMENT
5A-9-0	KEG-824	MILLER PLACE FIRE DEPARTMENT

SIXTH DIVISION TOWN OF RIVERHEAD

6-0-*		FIRE PREVENTION, INSPECTORS, COORDINATORS
6-1-0	KSS--209	JAMESPORT FIRE DEPARTMENT
6-2-0	KEC-735	RIVERHEAD FIRE DEPARTMENT
6-3-0	KEH-666	WADING RIVER FIRE DEPARTMENT
6-4-0	KFW-631	GRUMMAN AEROSPACE CORP FD

SEVENTH DIVISION- TOWN OF SOUTHHAMPTON

7-0-0	KUB-851	TOWN OF SOUTHHAMPTON FD DISP.
7-0-*		FIRE PREVENTION, INSPECTORS, COORDINATORS
7-1-0	KFF-296	SAG HARBOR FIRE DEPARTMENT
7-2-0	KRX-402	BRIDGEHAMPTON FIRE DEPT.
7-3-0	KUB-851	SOUTHHAMPTON FIRE DEPARTMENT
7-4-0	KCR-292	NORTH SEA FIRE DEPARTMENT
7-5-0	KNCN-244	HAMPTON BAYS FIRE COMPANY
7-6-0	KEF-561	EAST QUOGUE FIRE DEPARTMENT
7-7-0	KEG-336	QUOGUE FIRE DEPARTMENT
7-8-0	KEE-905	WESTHAMPTON BEACH FIRE DEPT.
7-9-0	KEG-614	FLANDERS FIRE DEPARTMENT
7-10-0		SUFFOLK COUNTY AIRPORT F.D.
7-12-0		HAMPTON BAYS AMERICAN LEGION AMBULANCE
7-13-0		SOUTHAMPTON VETS. MEMORIAL AMBULANCE
7-14-0		SOUTHAMPTON VFW AMBULANCE COMPANY
7-15-0		VILLAGE OF SAG HARBOR AMBULANCE COMPANY
7-16-0		WESTHAMPTON BEACH WAR MEMORIAL AMBULANCE
7-17-0		FLANDERS COMMUNITY AMBULANCE

EIGHTH DIVISION-- TOWN OF SOUTHOLD

8-0-0	KFY-891	TOWN OF SOUTHOLD FIRE DISPATCH
8-0-*		DEPT. OF FIRE PREVENTION, INSPECTORS,
8-1-0	KDZ-352	ORIENT FIRE DEPARTMENT
8-2-0	KWX-667	EAST MARION FIRE DEPARTMENT
8-3-0	KRI-582	GREENPORT FIRE DEPARTMENT
8-4-0	KFF-234	SOUTHOLD FIRE DEPARTMENT
8-5-0	KDT-371	CUTCHOGUE FIRE DEPARTMENT
8-6-0	KBL-994	MATTITUCK FIRE DEPARTMENT
8-7-0		FISHERS ISLAND FIRE DEPARTMENT

NINTH DIVISION- TOWN OF EAST HAMPTON

9-0-*		DEPT. OF FIRE PREVENTION
9-1-0	KEE-261	EAST HAMPTON FIRE DEPARTMENT
9-2-0	KTE-495	AMAGANSETT FIRE DEPARTMENT
9-3-0	KEF-707	MONTAUK FIRE DEPARTMENT
9-4-0	KRP-672	SPRINGS FIRE DEPARTMENT
9-5-0		EAST HAMPTON VILLAGE AMBULANCE

TENTH DIVISION----TOWN OF SHELTER ISLAND

10-0-*		DEPT. OF FIRE PREVENTION, COORDINATORS
10-1-0	KLM-663	SHELTER ISLAND FIRE DEPARTMENT
10-2-0	KYG-749	SHELTER ISLAND HEIGHTS F.D.

10-3-0 SHELTER ISLAND RED CROSS AMBULANCE

AMBULANCE BASE FREQUENCIES:

155.175, 2-15-0, 3-24-0, 3-27-0, 3-28-0,5-19-0, 5-34-0, 5-40-0
155.235; 2-16-0 155.295; 3-25-0 5-34-0

KEY-952	EASTERN LONG ISLAND HOSPITAL
KEY-953	CENTRAL SUFFOLK HOSPITAL
KFT-253	SOUTHSIDE HOSPITAL
KKP-943	NEW YORK STATE UNIVERSITY HOSPITAL
KUA-759	SAINT JOHNS HOSPITAL
KVF-597	BROOKHAVEN MEMORIAL HOSPITAL
KVF-598	SOUTHAMPTON HOSPITAL
KVF-600	HUNINGTON HOSPITAL
KVF-601	GOOD SAMARITAN HOSPITAL
WZJ-325	SAINT CHARLES HOSPITAL

* = FIRE INSPECTORS -40 TRU -50, COORDINATORS -1 TRU -20

AMBULANCES -16 TRU -20 FIRE DEPT. -30 CHIEF, -31 1st ASSIST

-32 2nd ASSIST CHIEF -33 3rd ASSIST CHIEF

DEPT OF FIRE SAFETY:

FC-1 DIRECTOR FC-2 CHIEF DEPUTY
FC-3 DEPUTY DIRECTOR FC-7 SENIOR FIRE SAFETY OFFICER
FC-8 , FC-9, FC-10, FC-11 AND FC-12 FIRE SAFETY OFFICERS
FC-13 CHEIF OF OPERATIONS FC-15 DEPUTY COORDINATOR COMMUNICATIONS
FC-16 DEPUTY COORDINATOR FIRE POLICE, FC-17 DEPUTY COORDINATOR

THAT IS ALL FOR THIS MONTH. NEXT MONTH, WESTERN KANSAS EMS. DOES ANYONE WANT SOME GOOD FLORIDA RAIN AND HEAT? I AM WRITING THIS AUGUST 1 AND FOR THE PAST TWO WEEKS, FROM 11am TO 4pm ALMOST EVERYDAY, HEAVY THUNDER STORMS, AND 90 DEGREE TEMPS AND HUMIDITY. I DON'T LIKE TO BRAG ABOUT MYSELF BUT I AM NOW AN ADOPTED FATHER TO A 2 YEAR GIRL. WE HAVE HAD HER SINCE FEBURARY 7, BUT IT WAS OFFICAL YESTERDAY (JULY 31st).

contact info wanted

This column has two purposes: to help members *contact* each other, and to help members obtain *information* directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interest, *this* is the perfect place for you to make known your interests. Remember — those who respond will do directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Scott Mattson, 2820 Bridge Ave., Point Pleasant, NJ 08742

INFO WANTED: This member would like information on the 800 Mhz systems being planned for the New Jersey State Police.
JOE McGINLEY (FL-197) 177 Chestnut St., Kearny, NJ 07032 (7/86)

INFO WANTED: This member boats off of Miller/Hart Island outside of Baltimore, MD and would like the frequencies (not marine) of the DNR, Park Rangers, Aberdeen Proving Grounds, Baltimore County and Baltimore City Patrol boats in that area.
C.A. Chamberlin (PA-031) 10 Old North Rd., Mountaintop, PA 18707 (717) 678-5015 (7/86)

CONTACT WANTED: I wish to exchange information (frequencies, equipment, etc.) in the eastern Massachusetts area. Also would like to contact any members who would like to start a club in the greater Boston area.
CHARLES WILLIAMS (MA-157) 711 Southern Artery, Quincy, MA 02169 (617) 884-0708 anytime. (7/86)

INFO WANTED: PS/NE editor would like to know if any member has knowledge of the three radios currently in use in Maryland State Police cars. Am I correct in assuming one is low-band, one high band, and the third CB?
HANK ROSE (NJ-206) 6 Florham Dr., Lawrenceville, NJ 08648 (7/86)

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

The FCC has amended Part 22 to create Rural Service Areas (RSA's) in the Cellular Telecommunications Service. The action establishes defined boundaries for those areas of the country outside the metropolitan areas and will hopefully expedite the licensing and implementation of service in these areas. (The Commission originally intended to accept applications for these areas after all 305 metropolitan areas were assigned.) The RSA's will be established along existing county lines (one or more counties) to make up roughly equal areas of approximately 150,000 population. Licenses will be awarded by lottery and the licensee will be required to serve at least 75% of either the area or the population. To allow more efficient service to sparsely populated areas, the power output may be increased to 500 watts ERP, provided the transmitter is over 100 miles from a metropolitan system and causes no interference to another system.

The Commission has proposed to deregulate the charges for aircraft mobile telephone service. The present rules require a uniform rate structure nationwide, since it was believed that this was essential to the preservation of an integrated, nationwide service. Since the Air-to-ground mobile telephone service is now well established, the Commission is favoring cost-based rates and the elimination of the mandatory uniform tariffs.

The FCC has released a proposal to implement a Schedule of Charges for the issuance of licenses and various other services. The authority to do so was contained in the Consolidated Omnibus Budget Reconciliation Act of 1985, which was signed into law on April 7. The Act adds a new Section 8 to the Communications Act, essentially as proposed in House Resolution 3128 and Senate Bill 999. The charges supposedly reflect the cost of providing the services to the public, and the funds collected will go into the U.S. Treasury General Fund, to reimburse the Government for appropriations to the FCC for its operation.

The FCC has charged fees for services in the past, but in 1974 the Supreme Court ordered a review of fees in response to a lawsuit regarding cable TV licensing. Then, in 1976 an appeals court set aside the Commissions revised fee schedule and ordered a recalculation of all of the costs associated with the services the FCC provided. In Dec., 1976, the Commission suspended the collection of all fees that were supposedly unfairly collected.

Since the taxpayers do not directly benefit from many of the services they provide, the FCC continues to believe license fees are a fair and equitable means of reimbursement for services rendered, by those who actually benefit from them. Since 1976 they continued to explore means of reinstituting a fair and equitable schedule of fees, and sought legislative guidance to this end. The Schedule of Charges adopted in the Budget Act was created in cooperation with the FCC staff, plus industry input during the legislative process. It is based on the Commissions cost of providing specific regulatory services only (and not on recovering as much as possible of the Commissions budget). The Act directs implementation within 360 days so the Commission is wasting no time, hoping to have the Schedule in effect by next April.

The proposed Schedule is almost identical to that in Senate Bill 999. The first (4/25/85) version did not propose fees for licenses in any of the Private radio services but the second (5/16) version did. Specifically, a new license, a modification or a renewal of a Marine Coast or and Aviation ground station would cost $60. A new license or a renewal of a license in most of the Private Land Mobile services (including GMRS) will cost 30 bucks, <u>but</u> they will exempt applicants in the Public Safety and Special Emergency radio services (or governmental applicants in <u>any</u> service). Modification of a license will likewise cost $30, but they won't charge for a simple address change. A license in the Operational Fixed Microwave Service will cost $135 (except for Public Safety eligibles).

In the Broadcast services, a construction permit will range from $1800 to $2250, the license will run from $100 for an FM station to $325 for an AM station, but only $375 and $75 for a translator or Low Power TV station. In all cases a renewal is $30. But if a hearing is required for any reason (a time-consuming procedure), it'll set em back another six grand. Educational

stations will be exempt from fees. A Broadcast Auxiliary (i.e.- BRP) application will cost $75, the license $30.

In the Common Carrier services, an application for a Public Land Mobile (mobile telephone) base station will cost $200 for each facility. A renewal will cost $20. A license in the Air-to-ground Public service will be $20. SB999 originally proposed a $900 fee for the construction permit in the Cellular service and $2750 for the initial license. The Commission is now proposing a $200 permit fee and a license fee of $525 for wireline carriers and $50 for non-wireline carriers. Minor modification of a license will cost $50 and a renewal $20.

The Commission is intending to refund fees only in a few cases, such as filings for which the applicant is not eligible, filings with an insufficient fee, etc. Otherwise, they are proposing to collect and retain the fees, regardless of whether the application is ever granted or not, for whatever reason (the applicant loses a comparative hearing, for example. Or, at some later date, withdraws his application.). Payments would have to accompany an application. No partial payments would be permitted. Grant of a license would be conditional upon final payment of the fee. In other words, if the check bounced, the license would be invalid. This way a revocation hearing wouldn't be required. Fees will be reviewed every two years and adjusted according to the Consumer Price Index, with a minimum adjustment of $5 or 5%. The fee would be adjusted in $5 increments.

A recent amendment will require applications in most of the land mobile services to be submitted to a frequency coordinator, who then forwards them to the Commission. (See July column.) Comment is being sought on the best way to collect the fees in these cases. Submission to the coordinator requires them to act as "cashiers" for the government. Two separate checks could also possibly be required, one for the license fee, the other for the coordinators charges. An alternative would be to have the coordinator return the approved application and the applicant would send in the forms, and the license fee. This relieves the coordinators of the responsibility of handling the fees, but would add delays to the application procedure. An applicant could also alter his application before he sent it in (if he didn't like the frequency, or a power limitation, for example).

FEDERAL GOV'T
and
MILITARY

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:

Dennis Biagioli, 607 W. Pleasant Ave. Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Hi! Here we are in October already. It seems like only last week was all the excitement in New York over the Statue of Liberty. If you were there with your radio, why not send along a bit of information for this column?

I've had a new addition to the household. No, not that way! Two teenagers, a dog, gerbil, chinchilla and a Goffin cockatoo are enough, thank you. What I meant was that I treated myself to the luxury of a new ICOM IC-R7000. Ah, what a radio! It's not really appropriate to review the equipment here -- we have others who do that so much better than I.

There is one thing that some of you might be concerned with regarding the IC-R7000. There was some question whether or not it could be used to receive Amplitude Compandered Side Band (ACSB). If you are interested, put your mind to rest. It most certainly does! But, as there is only one ACSB system up and running in the Chicago area thus far, that isn't a truly important feature as of yet. The Northern Illinois Nuclear Warning System operated ACSB data on 219.925. This is an alerting system in the event of a nuclear power accident.

Lets take a look at the results of the requested input from members for the National Park Service. Although a few members contributed quite a bit of information, I'm sure there are more of you who could add to this list. Please do so, and we'll publish an update.

NATIONAL PARK SERVICE
U.S. DEPARTMENT OF THE INTERIOR

** CALIFORNIA **

Ft. Mason
- 163.1500 Repeater (162.6125 input)

Golden Gate National Recreation Area
- 163.1500 Police repeater (162.6125 input)
- 164.8000 Park Rangers repeater (164.1000 input)
  - KOC704 Muir Woods
  - KMC728

** COLORADO **

Rocky Mountain National Park
- 166.3500 "RoMo" -- Park Rangers (B/M/R)
- 168.6250 Air Dispatch

** DISTRICT OF COLUMBIA **

C&O Canal
- 166.9500 Repeater (166.350 in)
- 409.0500 UHF link

Park Police
- 166.7250 F-1 Secondary (165.975 in) KIE799/KFB727
- 166.9250 F-2 Primary (165.925 IN) KIE799
- 167.0750 F-3 Special events
- 166.8500 F-4 Car-to-car
- 411.7250 UHF-2 (409.650 in)

Shenandoah National Park
- 166.9000 F-1 Repeater (166.300 in)
- 166.3000 F-2 Simplex

** FLORIDA **

Big Cypress National Park
- 172.4250 Park Rangers

Everglades National Park
- 172.5250 Park Rangers

Various Locations
- 172.2750 Link from FL Fish & Game Commission

** GEORGIA **

Chattachoochee River National Recreational area
- 166.3000 Park Rangers Repeater (In = 166.9000)
- 462.1000 Park Outdoor Center

Kennesaw Mountain National Battlefield Park
- 171.7750 Park Operations

Martin L. King Center and Monument
- 408.4750 Operations

** INDIANA **

Lincoln National Boyhood Memorial, Lincoln City
- 168.3500

** IOWA **

Effigy Mounds National Monument
169.6500 KAC758

Herbert Hoover National Hist. Site
169.6500 KAC757

** MAINE **

Arcadia National Park, Bar Harbor
164.175 R-out (164.725 input)
KCA709 Blackwoods Campground
KCB729 Cadillac Mtn. repeater
KCB730 Hulls Cove
KCB731 Rangers Residence at Seawall
KCB732 McFarland Mtn. Campground
KCB733 Rangers Residence at Sand Beach
KCB734 Bar Harbor Office
KCB735 Lower Hadlock
KCB736 Seawall

** MASSACHUSETTS **

Boston National Historic Park, Boston
166.950 Operations KCA711, simplex

Cape Cod National Seashore, South Wellfleet
171.725 Operations repeater (172.525 input)
KCB737 Rangers Residence, Eastham
KCB738 Rangers Residence, Provincetown
KCB739 Barnstable County Police Dispatcher
KCB740 Rangers Residence, Truro
KCB741 Visitors Center at Eastham
KCB742 Headquarters at South Wellfleet
KCB743 Visitors Center at Provincetown
KCB744 Repeater site at Eastham

Lowell Historic Park, Lowell
166.950 Operations KAC798, repeater (166.350 input)

Mimuteman National Hist.Park, Concord
155.010 Link with Concord City P.D.
164.425 Operations, simplex
KCA724 Superintendents Office, Concord
KCA726 Visitors Center, Lexington
KCA727 Concord P.D.
KCA729 Rangers Residence, Lexington
KCA730 Rangers Residence, Concord

** MINNESOTA **

Grand Portage National Monument
166.3250 KAC765 (166.9250 input?)

Voyagers National Park
166.9000 Repeater KAC737 (166.3000 input?)

Saint Croix National Scenic Riverway
164.7500 Repeater KAC761 (?? input)

** MISSOURI **

George W. Carver National Monument
168.3500 KFB772

Jefferson National Exposition Memorial
171.6250 Repeater KFB775

Ozark National Scenic River
171.6250 Repeater KAC770
172.4750 Repeater KAC770

Wilson's Creek National Battlefield
173.7625 KOE701

** NEW HAMPSHIRE **

Saint-Gaudens National Hist. Site, Cornish
173.7625 Operations, KEC707, simplex

** NORTH CAROLINA **

Blue Ridge National Parkway
167.1750 Park Rangers (apparent multiple inputs)

Cape Lookout National Seashore
169.6500 Operations

Various Locations
169.1250 Link from N.C. Forestry

** NORTH DAKOTA **

Fort Union National Hist. Monument
166.3750 KAC768

Knife River Indian Villages
166.3750 KAC769

T. Roosevelt National Park
166.3750 Repeater KAC780 (166.9750 input?)

** NEBRASKA **

Homestead National Monument
169.6500 KAC742

Scott's Bluff National Monument
32.73 KAF700

** NEVADA **

Lake Mead National Recreation Area
166.9000 Primary, repeater (166.3000 input)
411.7000 Link to 156.800 marine channel

** NEW JERSEY **

Edison National Historic Site
164.4750 Repeater (input?)

** NEW YORK **

F. D. Roosevelt National Historic Site
166.9500 Joint Ops with Vanderbuilt Mansion, repeater (166.3500 input)

Fire Island National Seashore
166.9000 Park Rangers, repeater (166.3000 input)

Gateway National Recreation Area
166.3250 Park Police F-1, KFB728 & KEA278 (166.9250 input)

General Grant's National Memorial
170.0500 Repeater (169.5500 input?)

Saratoga National Historic Park
173.7625 All operations

Statue of Liberty & Ellis Island
34.79 Security KID704

Vanderbuilt Mansion National Historic Park
166.9500 Joint operations with F. D. Roosevelt Home (166.3500 input)

** PENNSYLVANIA **

Allegheny Portage National Railroad
172.4000 Repeater (input?)

Delaware Water Gap Recreational Area
166.9500 Park Rangers repeater (166.3500 input?)

Independence National Historic Park
164.7250 Administration & Security

Valley Forge National Historic Park
164.4250 Security KFB734 & KFB735

** SOUTH CAROLINA **

Blue Ridge Parkway
166.3000
166.3500
166.3750 Park Rangers (Secondary)
166.9000
167.1500
167.1750 Park Rangers (Primary)
168.7250
168.6250

Cowpens National Battlefield
171.7750 Park Rangers

** SOUTH DAKOTA **

Badlands National Park
169.4000 Repeater KAC745 (input?)
169.9500 Repeater (input?)

Jewel Cave National Monument
170.0500 Repeater KAC744 (169.5500 input?)

Mt. Rushmore National Memorial
170.0500 Repeater KAC741 (169.5500 input?)

Wind Cave National Park
170.0500 Repeater KAC740 (169.5500 input?)

** TEXAS **

Lyndon B. Johnson National Hist. Site,Johnson City
170.0750 Repeater

** TENNESSEE **

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Ken Pehl (TX-003)
Bob Rankin (KS-001)
Ed Soomre (MA-017)

Great Smokey Mountain National Park
167.1500 Park Rangers (Primary)
166.3500 Ditto (Secondary)

** UTAH **

Golden Spike National Historic Monument
171.6750 General operations

Our sincere thanks to those members taking the time and trouble to share their findings with the rest of us. If you are a little disappointed that our large number of members could not generate a larger list, you are not alone.

How about another request for information from all of you out there who monitor anything in the spectrum covered by this column. The target "deadline" is the end of the year. Sometime between today and December 31, please write down and send in the frequencies that you regularly listen to. Anything in the Federal Government and/or Military area .(including UHF aircraft band). Even if you have only one or two, that's fine! In any area, by any agency, any mode, any band -- repeaters, data links, control links, anything! Just as long as it is something that you monitor. As always, please don't copy somebody else's list, this is a "confirmed" list, okay!

But, we are out of space for this month. Don't forget to send in those lists of frequencies that you regularly monitor, okay? I hope I'll hear from you! Until then...

73 -

Dennis

INTERNATIONAL

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

Several months ago I mentioned that I have been cultivating several monitors around the world who for whatever reason did not choose to join RCMA. Most of these people are active monitors in their own countries and some have begun to provide some very interesting information which I will share with you all in future columns.

A startling piece of information comes from just one of these monitors. This gentlemen lives in Belgium and has provided us with some frequencies from his local area. This month he adds some additions and updates as well as the following.

We have always been told that with some rare exceptions of a micro-fice card for Canada and some recently published scanner-oriented books in the U.K., there is no published frequency information for other countries such as we find in 'Police Call'. Well, that's not exactly true as I recently discovered. There are at least two publications covering frequencies for the Netherlands and since one is in its 6th edition, they have been around for at least some time.

The two 'Scanner Boeken' are:

1) 'Klove Handboek voor Scanners'. Klove is a crystal manufacturer for amateur and professional use. They publish a book, (I have the 4th edition-it's now up to 6th.) 56 pages, packed with frequencies and maps and all in Dutch. I have translations of some of the pages but I will have to work on most of it before I can present the information.

2) 'Frequentie Tabellen voor Scanners' published by Kluwer. The information in this publication is similar to Klove but it does contain and additional 50 pages of civil aviation and 10 pages of private business not contained in Klove. I am now trying to acquire a copy of this publication.

This Belgian monitor also has some additional contacts in the Nederlands who may be able to provide even more and newer information for both the Netherlands and bordering Germany. I will keep you all advised as to the progress I make.

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From 'Global Communications'-Third Quarter 1986 comes the following:

The new communications center for the Greater Manchester Police was recently opened bringing into operations what is believed to be the second largest capacity and most advanced integrated police radio control system in the U.K. The radio system was designed and installed by PYE Telecommunications to suit Greater Manchester Police's particular operational requirements. It integrates all police radio channels thru the new control room and interlinks the Force's 7000 officers whether they are using fixed, mobile, portable or paging equipment. The system serves a population of over 2.5 million people concentrated in an area of 500 square miles.The new Greater Manchester system allows 38 operators in the police control room access to 46 radio channels. The same Mascot system can be expanded to offer access to 100 channels to up to 100 operators.

The province of Antwerp Police will be equiped with a data communications system secured by Spectronics- a British firm. This equipment will enable messages from the central headquarters to be printed at zone headquarters and, if intended for local police stations within a zone, to be routed via the existing radio system to printers within those stations. Further expansion will allow messages to be directed to individual duty policemen using portable equipment.

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REPUBLIC OF IRELAND
(continued)

Band Plan-unofficial

It is believed that the following band plan is used in the allocation of frequencies.

FREQUENCY	PAIRED FREQUENCY	DIFFERENCE
68.0000-68.9875		
69.0000-69.9875		
70.0000-70.9875		
71.0000-71.9875		
72.0000-72.0250		
72.0375-72.7875	82.0375-82.7875	+10.0000
72.8000-74.6625	83.0250-84.8875	+10.2250
74.6750-74.7875		
74.8000-75.2000	Guard Band	
75.2125-75.2875		
75.3000-76.7250	84.9000-86.3250	+ 9.6000
76.7375-77.1500	86.7375-87.1500	+10.0000
77.1625-77.3250		

77.3375-77.7250	86.3375-86.7250	+ 9.0000
77.7375-77.9875		
78.0000-78.9875		
79.0000-79.9875		
80.0000-80.9875		
81.0000-81.8750		
81.9000-82.0250	-----	
82.0375-82.7875	72.0375-72.7875	-10.0000
82.8000-82.9875		
83.0000-83.0125		
83.0250-84.8875	72.8000-74.6625	-10.2250
84.9000-86.3250	75.3000-76.7250	- 9.6000
86.3375-86.7250	77.3375-77.7250	- 9.0000
86.7375-87.1500	76.7375-77.1500	-10.0000
156.0000-158.4125	160.6000-163.0000	+ 4.6000
158.4250-158.5125		
158.5250-160.4250	163.0250-164.9250	+ 4.5000
160.4375-160.5875		
160.6000-163.0125	156.0000-158.4125	- 4.6000
163.0250-164.9250	158.5250-160.4250	- 4.5000
164.9375-169.2000	169.7375-174.0000	+ 4.8000
169.2125-169.7250		
169.7375-174.0000	164.9375-169.0000	- 4.8000
450.0000-452.9875	464.0000-466.9875	+14.0000
453.0000-453.9875	459.5000-460.4875	+ 6.5000
454.0000-455.9875	468.0000-468.9875	+14.0000
456.0000-458.4875	461.5000-463.9875	+ 5.5000
458.5000-458.9875		
459.0000-459.4875		
459.5000-460.4825	453.0000-453.9875	- 6.5000
460.5000-461.4875	467.0000-467.9875	+ 6.5000
461.5000-463.9875	456.0000-458.4875	- 5.5000
464.0000-466.9875	450.0000-452.9875	-14.0000
467.0000-467.9875	460.5000-461.4875	- 6.5000
468.0000-469.9875	454.0000-455.9875	-14.0000

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BELGIUM (additions and corrections)

STATE POLICE (RIJKSWACHT)

Brussels Airport	(add):	169.480 MHz	
Brussels South	(add):	170.040	
Vilvoorde	(change):	170.020 (new)	168.800 (old)

HIGHWAY PATROL (RIJKSWACHT)

Province Brabant	(add):	169.560	
Province Antwerp	(change):	169.840 (new)	170.020 (old)

That's all for this month. I again must ask for input from members who have been travelling anywhere outside of the US with their radios. Some of you have to be going to Mexico and the Caribbean- how about some frequency information? Input has been ZERO and that doesn't bode well for any column. Please- let's have some information.

See you next month.... שלום - כ'כ'

MARKETPLACE

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:
RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

NO COLUMN THIS MONTH

1986 RCMA GENERAL MEMBERSHIP SURVEY

PURPOSE: The volunteer RCMA staff works many hours each month to bring you the RCMA NEWSLETTER. By answering the Survey questions, you will help us better understand your needs and desires regarding our monthly club publication. The response to this 1986 Survey will offer us guidance for the 1987 NEWSLETTER. Although you are encouraged to write the staff at anytime with suggestions for improvement, we can better serve you in 1987 if we have your response to these Survey questions.

OBJECTIVES: We have made many changes in the NEWSLETTER during 1986. Most of the changes were a direct result of the membership input to the 1985 Survey. We would like for you to judge our performance, indicate your preferences, and tell us what you like and don't like by checking the boxes below. We would like to continue serving the needs and interests of the majority, make changes where they are needed, and bring you an even better, more interesting NEWSLETTER in 1987.

INSTRUCTIONS: Read the questions and statements in the Survey. Mark your response to each question as it applies to you or your interest. Most questions require only that you mark an answer response, however, there will be a few blanks where your personal input or information will be helpful. It is NOT necessary that you give us your name or membership number, unless you want to. The data entered on this form will be entered into a computer and printed in early 1987. Your response must be mailed NO LATER THAN DECEMBER 1, 1986 to be counted.

CAREFULLY REMOVE THIS CENTERFOLD PAGE, COMPLETE THE SURVEY AND MAIL TO:

Mr. Bob Cheek, Editor
RCMA Survey Response
22320 SW 63rd Avenue
Boca Raton, FL 33428

1986 RCMA GENERAL MEMBERSHIP SURVEY:

1. What is your grade for RCMA and NEWSLETTER overall improvement for 1986?

   ( ) No Improvement ( ) Moderate Improvement ( ) Great Improvement

2. This section is related only to the PUBLIC SAFETY columns. Mark how often you read EACH column, if it is qualified as your favorite, and if you live in the area of coverage. You can have only ONE favorite Public Safety column!

COLUMN NAMES	READ: ALWAYS	SOMETIMES	NEVER	FAVORITE	MY HOME AREA
CALIFORNIA	( )	( )	( )	( )	( )
GREAT LAKES	( )	( )	( )	( )	( )
NORTH CENTRAL	( )	( )	( )	( )	( )
NORTHEAST	( )	( )	( )	( )	( )
SOUTH CENTRAL	( )	( )	( )	( )	( )
SOUTHEAST	( )	( )	( )	( )	( )
WEST	( )	( )	( )	( )	( )

3. This section allows you to tell us about your preference for the NON-PUBLIC SAFETY columns. Mark as indicated. Select ONE favorite in this section also.

NON-PUBLIC SAFETY COLUMNS:

COLUMN TITLE	READ: ALWAYS	SOMETIMES	NEVER	FAVORITE
AIRCRAFT	( )	( )	( )	( )
RAILROADS	( )	( )	( )	( )
VHF MARINE	( )	( )	( )	( )
ANARC NEWS	( )	( )	( )	( )
YOUR THOUGHTS	( )	( )	( )	( )
CAPTAIN'S DESK	( )	( )	( )	( )
BUSINESS EAST	( )	( )	( )	( )
BUSINESS WEST	( )	( )	( )	( )
COMMUNICATIONS PROFILE	( )	( )	( )	( )
CALENDAR	( )	( )	( )	( )
CONTACT/INFO WANTED	( )	( )	( )	( )
MARKETPLACE	( )	( )	( )	( )
NEWS MEDIA COMMUNICATIONS	( )	( )	( )	( )
NEW PRODUCT REVIEW	( )	( )	( )	( )
FCC TOPICS	( )	( )	( )	( )
COMPUTER CORNER	( )	( )	( )	( )
TECHNICAL TOPICS	( )	( )	( )	( )
SPACE COMMUNICATIONS	( )	( )	( )	( )
SPECIAL FEATURES	( )	( )	( )	( )
INTERNATIONAL	( )	( )	( )	( )
BELOW 30 MHz	( )	( )	( )	( )
AMATEUR COMMUNICATIONS	( )	( )	( )	( )
FEDERAL GOV'T MILITARY	( )	( )	( )	( )
MONITORING & THE LAW	( )	( )	( )	( )
PHOTO SECTION	( )	( )	( )	( )
CANADA	( )	( )	( )	( )

In this section, mark the answers with an (X) IF the answer applies to you. If your answer to the question is NO, then DO NOT make any mark at all...

4. Regarding AMATEUR RADIO COMMUNICATIONS and your activity in ham radio,

A. ( ) I am a licensed ham operator, and my class license is (_____).
B. ( ) I would like to become a licensed amateur radio operator.
C. ( ) I am not interested in becoming an amateur radio operator.

5. Regarding your listening BELOW 30 MHz and your interest in shortwave radio,

A. ( ) I own a shortwave receiver. B. ( ) I find HF RTTY of interest.

6. IF you read the CANADA column, check the one that applies to you:

A. ( ) I am a Canadian member. C. ( ) I live in the northern USA.
B. ( ) General interest in the column information.

7. Regarding your COMPUTER related interest and activity, mark all that apply:

A. ( ) I own a personal computer. Make/Model:_____
B. ( ) Yes, I can and do use telephone bulletin boards.

8. Regarding the PHOTO DEPARTMENT column, mark all that apply:

A. ( ) I like the new photo covers. C. ( ) I own and use a camera.
B. ( ) I am considering sending a photo for cover consideration.

9. Regarding the RCMA BUSINESS REPORT, mark one answer:

A. ( ) I DO NOT read the column when printed.
B. ( ) I AM interested in the club business matters and always read it.
C. ( ) I feel QUARTERLY Reports are necessary and should be printed.

10. Regarding your interest in SPACE COMMUNICATIONS and SATELLITE signals,

A. ( ) I DO own a satellite TV receiver.
B. ( ) I DO NOT own a satellite TV receiver, but will buy one soon.
C. ( ) I want to see more articles on hidden satellite signals.

11. Regarding your interest and understanding of TECHNICAL TOPICS columns, check ONE answer which best describes your interest and understanding:

A. ( ) I would like to see articles of a GREATER technical nature.
B. ( ) I would like to see articles of a LESS technical nature.
C. ( ) Keep the articles about the SAME as they are now.

12. Regarding your RCMA membership, are you getting:

A. ( ) About what you expected when you joined.
B. ( ) LESS than what you expected when you joined.
C. ( ) MORE than what you expected when you joined.

13. Regarding the RCMA policy on not publishing "Classified" federal frequencies and frequencies that are considered "sensitive", do you:

A. ( ) Understand and agree fully with club policy.
B. ( ) Have NO understanding of why RCMA has such a policy.

14. How many hours in an AVERAGE day do you spending listening to your monitor receiver? Mark the answer which best fits your listening habits:

A. ( ) Less than 3 hours a day.
B. ( ) More than 4 hours a day.
C. ( ) More than 8 hours a day
D. ( ) More than 12 hours a day

15. Where are you when you do MOST of your hobby listening?

A. ( ) At home B. ( ) mobile C. ( ) at work D. ( ) other

16. How many frequencies do you NORMALLY monitor at one time? Another words, how many different channels do you scan at once, during NORMAL listening?

A. ( ) 1 to 4 frequencies
B. ( ) 4 to 10 frequencies
C. ( ) 10 to 20 frequencies
D. ( ) More than 20 frequencies

17. Mark the services that you NORMALLY listen to in your HOBBY monitoring.

A. ( ) Federal agencies	D. ( ) Military	G. ( ) Aircraft
B. ( ) State Police	E. ( ) County/City PDs	H. ( ) Security
C. ( ) State Forestry	F. ( ) County/City FDs	I. ( ) EMS, Rescue
J. ( ) Railroad	M. ( ) News Media	P. ( ) Satellites
K. ( ) Business	N. ( ) Telephone	Q. ( ) Local Gov't.
L. ( ) Marine	O. ( ) Portable phones	R. ( ) Shortwave HF
S. ( ) Transportation	T. ( ) State DOT	U. ( ) Game & Fish Com

V. ( ) Other: _____

18. If you could pick ONE NEW SUBJECT to be added to our magazine on a monthly basis during 1987, what would that subject be?

_____

19. What is your primary occupation? (If retired or unemployed, name the last employment that you had.)

_____

20. Are you active in CB or REACT? A. ( ) CB B. ( ) REACT

21. What is the make and model of your FAVORITE scanner or monitor radio?

_____

22. Indicate the population of the area that you MONITOR:

A. ( ) Metropolitan B. ( ) Suburban C. ( ) Rural

23. Regarding the ELECTRONICS PRIVACY ACT OF 1985, mark ONE that applies to you personally, your actions, your concerns:

A. ( ) I found the matter deeply disturbing and wrote my representatives
B. ( ) I found the matter disturbing, but never found time to write.
C. ( ) I DID read the information printed, but was NOT concerned.
D. ( ) I DID NOT read the information printed.

24. Briefly, state your biggest, single complaint about RCMA?

MONITORING & THE LAW

Send all articles on, references to, and copies of monitoring laws, as well as questions concerning the legal aspects of monitor radio listening to:

COLUMN EDITOR WANTED

Subcommittee Passes New Draft of S.2575

A new draft of S.2575, the Electronic Communications privacy Act, was presented to the Senate Subcommittee on Patents, Copyrights and Trademarks on August 12th. It was approved, with less than half an hour of discussion, and the Subcommittee voted to forward it to the Judiciary Committee for further action. It is expected to be taken up on September 11th, when the Congress returns from summer recess.

This new draft includes some welcome changes for radio monitors. First and foremost, private land mobile radio services have been added to the list of communications that may be legally monitored - if their signals are "readily accessible to the general public" (that is, not scrambled or engaged in common carrier communications).

Penalties for interception of radio common carriers (traditional carphones and voice paging) were reduced to a maximum of 6 months in jail and a $500 fine - in line with the cellular radio provisions.

The intent standard for criminal liability has been increased from "willful" to "intentional." (We're told this means that greater proof of deliberate purpose would be required for successful prosecution of an "unauthorized interceptor." But the practical significance of this change depends a great deal on the interpretative language used in the report accompanying the bill. That has yet to be written.)

At the request of the FCC, and in response to the Captain Midnight incident, an amendment was added to up the penalties for deliberate or malicious interference with satellite communications, to 10 years in jail and up to $250,000 in fines.

A provision we had originally suggested, to protect victims of harmful interference from criminal liability, was expanded, also at FCC request, to include interference-susceptible "consumer electronic equipment" like tape recorders and VCRs. And the clause exempting ham radio from the bill was slightly reworded to conform to regulatory language conventions.

The new draft includes a provision creating a fine of $500 for interception of unencrypted satellite TV relays not intended for immediate rebroadcast (e.g., network "backhauls" and video conferences). But 36 hours after it was passed, satellite dish owners got this provision changed. Interception of a backhaul feed for private noncommercial viewing would subject the viewer only to the possibility of a court injunction, with recovery of damages limited to $500. But if the injunction were violated, or a second offense was committed, there would be a mandatory civil fine of $500, plus damages of up to $1000. This amendment is still pending Subcommittee approval, as we go to press.

The Subcommittee hoped to present the new draft of S.2575 to the full Judiciary Committee on August 14th. But the vote on Supreme Court nominations for William Rehnquist and Antonin Scalia took all the time available, and the bill was not brought up. The Congress's August recess will delay further action until early in September - although we'll be using that time to try to win new support for our proposals.

ANARC is still trying to get subcarrier and subsidiary services, as well as remote broadcast pick-up stations, dropped from the bill's list of allegedly inaccessible transmissions. The Patents Subcommittee staff is also still thinking about recommending that the FCC require labels on all radio telephones lacking voice security, to advise users their calls might not be private. As part of the deal, scanners capable of tuning in forbidden frequencies could also be labelled to warn users about criminal liabilities, and in exchange for bearing this label, they would not be classified as illegal "surreptitious listening devices." (This last point is important, because S.2575 would bring radio receivers under an existing law that not only bans use, ownership and advertising, but provides for the confiscation, of "devices primarily designed

for the surreptitious interception" of protected communications.) The lawyers for Bearcat and Regency both support the labelling idea. It is opposed by the cellular industry.

We're also trying to work out a definition for "intentional interception" that will minimize the exposure of radio monitors to criminal penalties when the signal is unprotected and reception is harmless.

The latest draft of S.2575 provides some additional relief to radio monitors, and continues the generally positive trend of debate in the Senate. The results of the RCMA's "Action Alert" mailing have been quite tangible, with staffers from Senators Grassley (Iowa), Simon (Illinois) and Thurmond (South Carolina) calling us to find out what the fuss is about. No Senator has yet displayed the courage of Rep. Mike DeWine in pointing out the bill's flaws. But we are at least recognized now as having legitimate concerns, and as contributing positively to the drafting process. We've won many new friends in the policy arena, but we must go beyond that and make it clear that we can muster meaningful public opposition to a bill like this. Otherwise, I'm afraid we'll have to face this battle again in the future.

Thanks for your support so far. But it ain't over yet. A card to your Senator now can show them we're serious about our spectrum rights, and we aren't going to stop being serious about spectrum rights anytime soon. There are about 8 million people that own scanners, and only 1 or 2 million that own satellite dishes. There's no reason why we should get pushed around when there are so many more of us than there are of dish owners. The difference is, they call and write their Congressmen to complain when their interests are threatened. If we don't do likewise, we'll probably deserve what we get.

---Robert Horvitz (CT-048)

NEWS MEDIA COMMUNICATIONS

This column is for reporting frequency and radio systems information of news media. Send related reports and questions on newspaper, radio, television, magazine, film production companies, etc. to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

THIS MONTH WE HAVE SEVERAL VERY EXCLUSIVE FREQUENCY LISTS. THE FIRST ONE IS FROM RON L. MURRAY (CA-VE-Ø13) OF KENT, WASHINGTON. MANY YEARS AGO I REMEMBER SEEING ONE OF HIS FREQUENCY LISTS IN THE BUSINESS COLUMN. IT WAS SUCH AN INTERESTING LIST, THAT I STILL HAVE A COPY OF THE OLD LIST IN MY FILES. WE APPRECIATE RON SENDING IN A NEW COPY OF HIS EXCELLENT LIST FOR PUBLICATION.

ONE FREQUENCY THAT RON HAS BEEN TRYING TO IDENTIFY IS ON 45Ø.1875 REPEATER. THE USER ONLY IDENTIFIES AS 'NEWS BASE' USING THE CALL SIGN KOS3Ø4 WHICH IS LISTED TO KELLY TELEVISION COMPANY, LOCATED IN TACOMA ON 455.1875. THE COMPANY ALSO HAS A LICENSE KOS3Ø3 LOCATED IN BREMERTON ON 45Ø.1875. IF ANYONE KNOWS OF THE ACTUAL STATION'S NAME OR BROADCAST CALL SIGN, PLEASE WRITE THIS COLUMN SO WE MAY INFORM RON. HERE IS WHAT RON SENT:

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Seattle-Tacoma area news media
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(verified info as of 04-01-86)

KOMO <t.v.channel 4 - radio AM-1000>
     161.760 <s>      television base
     450.4125<s>      Radio base
     450.5875<r>      E.N.G.Command
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455.1125<s> E.N.G.Command <F-2>
122.750<AM> KOMO
Air Patrol <fixed wing-radio>
AIR-4 <television helicopter>

KING <t.v.channel 5 - radio AM-1090>
161.730 <s> Radio
450.5125<s> Master Control <E.N.G. F-1>
450.6125<s> E.N.G. <F-4>
455.5125<s> E.N.G.
122.750<AM> SkyKing <television helicopter>
Skytwin-1 & Skytwin-2 <radio fixed wing>

KIRO <t.v.channel 7 - radio AM-710>
161.640 <s> Base-3 <radio>
161.700 <s> Base-2 <television>
122.750<AM> R-11 <KIRO copter-radio>
<J-42 on State Patrol radio 155.580>
Chopper-7 <television helicopter>

KSTW <t.v.channel 11>
450.4875<r> Tacoma News Base
Seattle Base

KVI Radio-166.250<s>
The Seattle Times-173.325<s>
The Seattle Post Intelligencer-173.375<s>

"News Media Communications"
Frequency Chart of frequencies within this column

Relay Press (NON-BROADCAST NEWS MEDIA)
newspapers, magazines, wire services, traffic reporting cos.

173.225 Mhz Shared with "Motion Picture Service"
173.275 "
173.325 "
173.375 "
452.975 "
453.000 "
457.975 "
458.000 "

Motion Picture (Movie Companies, Concert Productions, and services that are provided for companies that deal in this area.)

152.870 thru 153.020 Mhz. (Not Much Use) shared with special industrial
173.275 Mhz.
173.225 "
173.325 "
173.375 "

Remote Broadcast Pick-Up

25 thru 26 Mhz. not widely used by broadcasters except for low power devices such as "wireless microphones" and "IFB"

152.870 thru 153.020 Mhz. see motion picture/special industrial
161.640
161.670
161.700
161.730
161.760
166,250
170.150
450.0000 Mhz thru 450.990 Mhz.
455.0000 Mhz thru 455.990 Mhz.

Note 450.010, 450.020, 455.010, 455.020
450.980, 450.990, 455.980, 455.990
above used for transmitter data links only.

NOW FOR A COUPLE OF UPDATES FROM CONNECTICUT. PETE KEMP (CT-Ø73), ANOTHER MEDIA PROFESSIONAL WHO HAS WORKED IN RADIO & TELEVISION FOR NEARLY 2Ø YEARS, WROTE TO TELL US THAT THE ABBREVIATION 'E-N-G' ORIGINALLY STOOD FOR ENGINEERING, BUT NOW IN TODAYS HIGHTECH TELEVISION STATIONS 'E-N-G' STANDS FOR ELECTRONIC NEWS GATHERING.

FROM THE DISTINGUISHED ARTIST LAWRENCE H. REED (CT-Ø46), WE HAVE THESE 2 UPDATES FOR NEW YORK. WBAB (1Ø2.3 FM) OF BABYLON, NY IS OPERATING ON 161.72 WHICH IS USED FOR TRAFFIC REPORTS BY DEBRA JACKSON FROM AN AIRPLANE. NOTE, THAT 161.72 LIES BETWEEN THE COMMONLY USED 161.7Ø & 161.73. IN THE PAST, I HAVE NOTED MANY STATIONS USING THESE 'IN BETWEEN' FREQUENCIES IN ORDER TO AVOID CO-CHANNEL INTERFERENCE. THE OTHER FREQUENCY LARRY SENT, IS WINS (1Ø1Ø AM) IN THE BIG APPLE WITH ITS ALL NEWS FORMAT, WHICH IS USING 45Ø.45 FOR ITS COMMUNICATIONS.

WILLIAM HARWELL (GA-Ø26) SUBMITTED THE FOLLOWING INFORMATION FOR THE AUGUSTA, GEORGIA AREA WHICH WILL COMPLIMENT THE LIST THAT WAS IN LAST MONTHS COLUMN SENT IN BY JIM ABDU FOR THE ATLANTA AREA. THIS LIST, THAT BILL SENT IS VERY THOROUGH. BILL NOTES, THAT ALL FREQUENCIES ARE FOR THE AUGUSTA AREA UNLESS OTHERWISE NOTED.

WBBQ (1Ø4.3 FM & 134Ø AM) 45Ø.8Ø REPEATER (INPUT IS 455.8Ø)
BILL SAYS WBBQ USES THEIR FREQUENCY FOR LIVE ON THE SCENE NEWS REPORTS. THEY CHASE MANY OF THE NEWSWORTHY EVENTS IN AGUSTA. WBBQ ALSO USES 161.73 FOR OCCASIONAL REMOTES.

WFBC (TV4)	161.67 (GREENVILLE, SC)
WFTZ (94.3 FM)	161.64 OCCASIONAL REMOTES
WFXA (1Ø3.1 FM)	161.76 OCCASIONAL REMOTES
WGUS (138Ø AM)	161.67 OCCASIONAL REMOTES
WJBF (TV6)	161.7Ø NEWS DEPARTMENT
WPBM (13ØØ AM & 95.9 FM)	161.76 OCCASIONAL REMOTES (AIKEN, SC)
WRDW (TV12)	161.76 NEWS DEPARTMENT
WSPA (TV7)	45Ø.2125 (SPARTENBURG, SC)
WTHO (1Ø1.7 FM)	161.76 OCCASIONAL USE (THOMPSON, GA)

TO FINISH THIS MONTHS COLUMN WE HAVE A SUMMARY OF THE 'BASIC' NEWS MEDIA FREQUENCIES WHICH ARE COVERED BY THIS COLUMN. IT IS SENT IN BY ANOTHER MEDIA PROFESSIONAL, KEVIN JAMES PARRISH. KEVIN WOULD LIKE TO HAVE THE ASSISTANCE OF RCMA MEMBERS IN HELPING HIM COMPILE A LIST OF FREQUENCIES THAT ARE USED BY 'ABC' AFFILIATE TV & RADIO STATIONS IN THE USA. IF YOU ARE ABLE TO HELP KEVIN, PLEASE WRITE HIM AT; KEVIN JAMES PARRISH, POST OFFICE BOX 22216, SAN FRANCISCO, CA. 94122. WE WILL HAVE AN IN DEPTH LOOK INTO THE CALIFORNIA MEDIA IN THE FOLLOWING MONTHS WITH THE HELP OF KEVIN & SEVERAL OTHER GENEROUS CONTRIBUTORS. HOWEVER, NEXT MONTH WE HAVE FREQUENCIES FOR THE FLORIDA MEDIA.

UNTIL NEXT MONTH GOOD NEWS & GOOD SCANNERING!

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows — Iowa, Kansas, Missouri, Nebraska, N. Dakota, S.Dakota, and Minnesota:

Kurt Swaney, P.O. Box 1198, Manhattan Beach, CA 90266-8198

← NO COLUMN THIS MONTH

PUBLIC SAFETY WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora CO 80011
electronic mail:<Compuserve-75376.673>,<Delphi-JORG>,<Source-BBZ812>

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PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

Hank Rose, #6 Florham Drive, Lawrenceville, NJ 08648

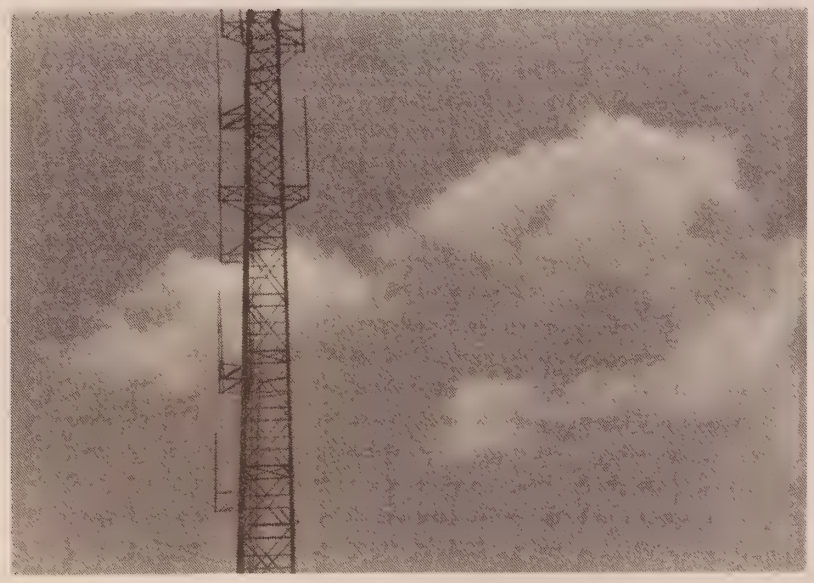
photo department

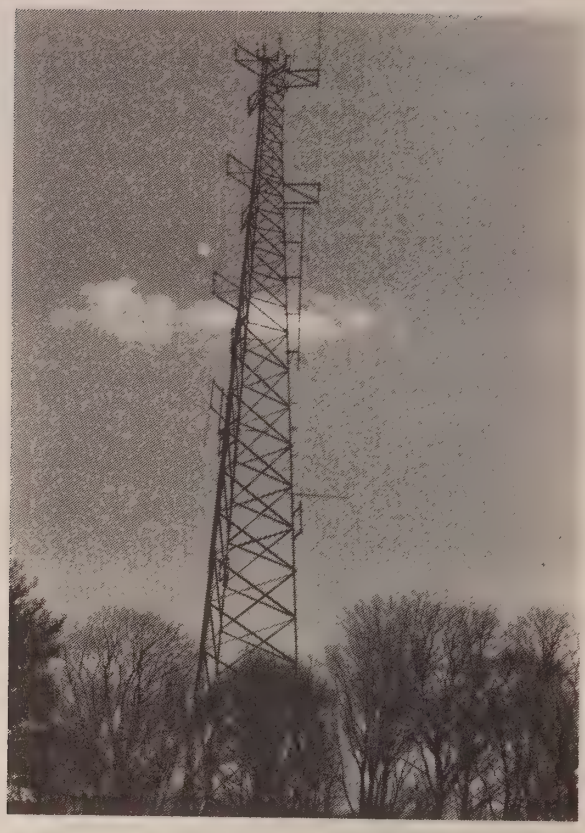
Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 X 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

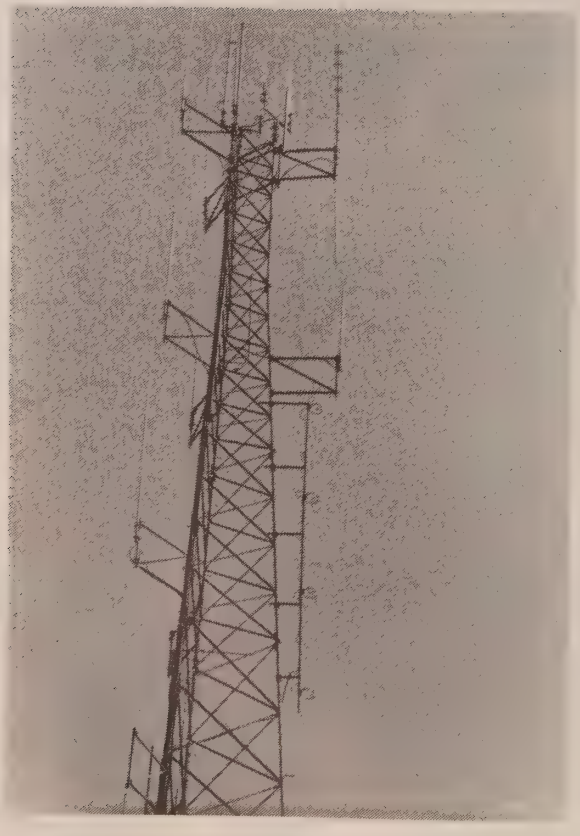
Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

This month's photos are by Carl Gerosa (NY-117). They're a good look at two big towers on the Grasslans Reservation in Valhalla, NY. This huge complex has county and state schools, a medical center, offices, a fire training facility, and the Westchester County Penitentiary. Truly something for everyone! Our first pair of shots shows VHF-low antennas for the county FD. I'll bet I heard these in L.A. before the sun went into hibernation. Carl, did you folks ever hear our C.C.D.?

The second photos are of a tower on the grounds of the community college. Carl didn't know all the agencies involved. Well, let's see. That's an FM broadcast array on the right. Stacked dipoles at top right look like stuff the feds use hereabouts, and that sure looks like a Ringo Ranger in the middle. The other Station Masters and such could be just about anybody. A check of the FCC site index would help. Thanks, Carl, and sorry it took 6 months to get 'em in.







Morse code man, 84, to go modern

Mr Jack Sykes, aged 84, who is believed to be the only remaining British manufacturer of Morse code keys, working in the kitchen at his home in Slaithwaite, near Huddersfield, west Yorkshire. Mr Sykes, who started his career as a radio operator in 1918, supplies the keys to hams all over the world. He is now moving into new technology and proposes to convert his car port into a room where he can use computers.

This nifty bit of living history comes from Geoff Halligey, our HF editor. There is still a lot of CW around, though I'll admit I cheat and use an electronic keyer. TNX GEOFF ES 73 SK DE NV6H CL. See you next month.

PUBLIC SAFETY

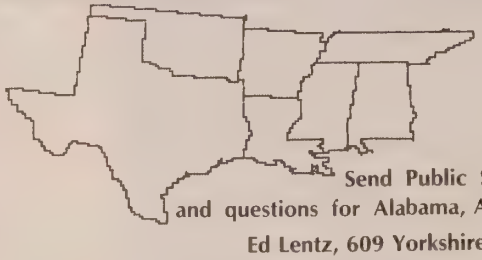
This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		



PUBLIC SAFETY - SOUTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

GEnie - ELENTZ DELPHI - THISARSE COMPUSERVE - 72645,172

Hello and welcome to RCMA South Central. This month has been a busy one around here for a change. Had the Texas State Convention in Austin, a small Hurricane in Port Arthur, and a vacation trip that took me to Pidgeon Forge, Tennessee. Also, we have some information from Arkansas, Tennessee and from the Fire Buff in East Texas.

The State Convention was good as usual and we wish others could have made it, but there will always be next year. Speaking of next year, drop me a line and let me know what it would take to get most of you to come to the convention. If you don't take the oppertunity to attend you surely are missing something that is very worthwhile.

We started the meeting about 1:00 in the afternoon and after the initial visits were over , papers started flying. I am not sure how most other groups have their meetings, ours is very informal. Usually it consists mosyly of comparing notes. Neal brought his Yaesu FRG-9600 along and I was beginning to wonder if Dave would let

him take it home. After supper we went to the 911 center for Travis County. It was an interesting and informative tour. The 911 operators take calls for the police dispatchers and transfer the fire and EMS calls. The dispatch center for Austin Fire and PD, and Travis county EMS is right there with the 911 operators. We got to see the whole operation. We all want to thank Richard for lining up this short?? tour.

I had very intresting vacation this year. With the help of several books that I recently received, I had a great time. The most helpful was a new style book by FOX MARKETING, INC. It is a regional directory covering the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee, and the Virgin Islands. Finally I think Norm has done a book in a form that we all can use while on the road. I highly recommend this book for those of us who travel as a supplement to the standard "POLICE CALL". Go back and read "From The Captain's Desk" in the August 1986 issue for a complete description of the "Southeastern U.S." regional directory, or save time, and order you book now. It is well worth the money.

FOX MARKETING, INC
ATTN: SCANNER DEPT
4518 TAYLORSVILLE RD.
DAYTON, OH 45424-2497
1-800-543-7892
1-800-621-2513 In Ohio
513-236-3591 In Dayton Area

Now let's get on to the good stuff.

ARKANSAS

(from Jeff ?)
(Jeff, drop me a line. I somehow lost your address.)

HOT SPRINGS ARKANSAS AREA

Ch 1	37.040	Clark Co. SO/PD
2	37.080	Yell Co. PD
3	37.240	Alco SO
4	37.300	Hot Spring Co. SO
5	37.320	Pike Co. SO
6	37.340	Malvern PD
	38.890	Corps of Engineers
	44.740	Hot Springs-Conway-Clarksville
		Warren - State Police
	151.055	Arkansas Road Dept.
	151.070	Arkansas Road Dept.
	151.085	Arkansas Road Dept.
	151.100	Arkansas Road Dept.
	151.175	Arkansas Game & Fish
	151.385	Arkansas Game & Fish
	151.655	Oaklawn Race Track
	151.715	Cable TV & Coke
	153.860	Village PD - Hot Springs
	153.410	Ark-La Gas
	154.235	Piney-Fountainlake Fire Dept.
	154.265	Morning Star Fire Dept.
	154.340	Hot Ssprings Fire Dept
	154.415	70 West Fire Dept
	154.445	Lake Hamilton Fire Dept
	154.515	Magic Springs
	154.845	Garland Co.
	155.205	AMI Ambulance
	155.340	St. Joseph Ambulance
	155.415	Hot Springs PD
	155.590	Mt. Ida SO
	158.970	Hot Springs PD F-2
	159.030	Garland Co. SO F-2

159.090	State Police Mobile
159.175	Dog Catcher
146.500	Ham Radio Simplex
146.670	Little Rock
146.790	Mena
146.880	Hot Springs
146.940	Little Rock
147.180	Hot Springs
147.360	Hot Springs

TENNESSEE

(from John TN-036 and Curtis TN-033)

Tennessee Highway Patrol

42.260	Car to base or relay
42.280	Car to Car
42.420	Base
42.360	Radar/car to car
42.280	Executive Channel
42.560	THP base Knoxville
45.580	Repeater/mobile
45.620	Repeater
155.505	Repeater/Holston Mnt. Relay
159.090	Bays Mnt. Relay

THP uses 16 channel Micor radios, 8 selectable PL codes, 110 watt.

(from John TN-036)

42.220	Tennessee Bureau of Investigation
159.240	Tennessee Fish and Game
44.840	Tennessee State Forestry
155.295	Rescue (TARS)
37.260	Tennessee Sheriffs Net
465.400	StateWide Mutual Aid

HAMILTON COUNTY AREA

460.050	Hamilton County West
460.100	Hamilton County East
154.280	Tri-State Mutual Aid
154.160	Hamiltn County Emerg Net
37.100	Humane Society
460.425	Red Bank Police
460.325	East Ride Police
154.325	Red Bank Fire Dept
154.310	East Ride Fire Dept

City of Chattanooga Police

460.075	Adam
460.350	Baker
460.225	Code 3
460.475	Code 4
460.400	Code 5

City of Chattanooga Fire Dept

154.220	Dispatch
154.250	Paging and Admin.
155.205	Emerg Med Services
155.340	Erlanger Hospital
162.550	NOAA Weather Radio

(from Me!)

Pigeon Forge/Gatlinburg Area

460.025	Sevierville County SO
	Sevierville City PD
	Pigeon Forge PD
	Gatlinburg City PD
155.205	Seiver County EMS

	462.950	Seiver County EMS
	155.340	Seiver County Med Ctr
	155.280	Seiver County Med Ctr
	154.175	Pigeon Forge Fire Dept
		Seiver County Fire
		Waldens Creek VFD
	154.250	Pigeon Forge Fire Dept
		Seiver County Fire
		Waldens Creek VFD
	464.675	Dollywood Ams Prk
	464.700	Dollywood Ams Prk
	157.620	Gatlinburg Aerial Tramway
	157.680	Ober Gatlinburg Ski Area
	167.150	Great Smokey Mountain - Park Rangers
	168.200	Great Smokey Mountain - Forest Service
	168.750	Great Smokey Mountain - Forest Service

(from Curtis TN-033)

Police Departments

	154.725	Johnson City
	155.010	Kingsport City
	155.700	Bristol, TN
	155.595	Bristol, VA
	154.785	Greeneville, TN
	155.055	Jonesboro, TN
	155.415	Elizabethton
	155.130	Erwin
	154.025	Mountain City
	155.580	Mountain City
	154.755	Area PD & SO Mutual Aid

Sheriff Departments

	155.250	Washington Co.
	155.415	Carter Co.
	155.640	Sullivan Co.
	154.785	Greene Co.
	155.130	Unicoi Co.
	155.580	Hancocke Co.
	155.580	Johnson Co.

University/Colleges

	154.515	Milligan College Security
F1	155.925	East TN State University PD
F2	154.965	East TN State University PD

Emergency Medical Services

	155.205	Med Com - EMS Dispatch Tri-Cities area
	155.340	Ambulance to Hospital
	155.280	Hospital to Hospital

Rescue Squads

	37.900	Tenn. Association of Rescue Squads (TARS)
	155.160	Carter Co. Rescue
	155.160	Johnson City Rescue
		Hazerdous Material Team - (Paging) Johnson City
		Gray Rescue
	155.280	Greeneville Rescue - Paging
	155.205	State-Wide in All Rescue units

Civil Defense

45.360
45.440

Fire Departments

	154.250	Johnson City Fire Dept
	151.070	Elizabaethton Fire Dept
	154.370	Greeneville Fire Dept
	154.235	Kingsport Fire Dept
	155.400	Bristol Fire Department
	33.840	Gray VFD
	154.205	Nolichucky VFD

154.445 Stoney Creek VFD/Mnt. City
154.175 Limestone VFD
154.220 Piney Flatts VFD

Miscellaneous
462.975 Bristol Life Saving Crew
462.950 Briston Life Saving Crew
37.260 Inter-Co Sheriff Freq
155.370 Inter-City PD & Sheriff

TEXAS

(from Gary TX-94)

Longview Fire Department

Dispatch: 154.430 WXY590 153.950 input

Station 1	Center & Cotton	E1 L1 B1 BC25
Station 2	Eastman Rd & Leona	E2 B2
Station 3	Mobberly & E. Young	E3
Station 4	High & Holland	E4 B4
Station 5	Pine Tree & Niblick	E5 E5A B5
Station 6	Judson Rd & Montclair	E6
Station 7	Gilmer Rd & Vicky	E7 E7A
Station 8	McCann Rd & Spring Hill	E8 B8
Station 9	(Under Construction)	

Chief Unit 14 Fire Marshall Unit 73
Asst Chief Unit 15 Inspectors 74, 75 & 76
Asst Chief Unit 16
(Station Radio Check @ 0700 each morning

Kilgore Fire Department

Dispatch: 155.760 KNSD388 153.980

Station 1	1E 7E 1R 1AW 1A 4A
Station 2	2E 8E 2A
Station 3	3E 9AW 3A

Chief 1 Chief
Asst Chief 2 Chief
Battalion Chief 3 Chief

NOTE: This FD uses the number of the apparatus first and then the type of apparatus.

There are two new EMS Helicopter Operations in Texas now. Both are in Tyler. They are operated by the two major hospitals in Tyler, Mother Frances and Medical Center.

The Mother Frances Hospital operation is known as Flight for Life. The copter uses "Flight for Life" as its radio call sign. A local TV station shares operating cost so it can utilize the copter to cover news stories when the copter is not being used for it's primary purpose of providing emergency care and transport for injured persons in the East Texas area. On several occasions the copter has been used to look for missing persons and wanted persons by Police of Sheriff's Offices. So far the Copter has been heard on 155.340, 155.175 and on misc. Police and Sheriff dispatch frequencies and 154.950 as well.

The Medical Center Hospital operation is part of East Texas EMS. East Texas EMS isthe main ambulance service for Tyler and Smith county. The copter uses "Air 1" as it's call sign and is dispatched over East Texas EMS main Dispatch frequency 155.175. Air 1 has also been heard on 15.340, 154.950 and misc. Fire & Police dispatch channels. Air 1 is used for EMS flights only.

The Flight for Life is a Alouette III Jet Turbin and Air 1 is a Messerschmitt MBB 105.

Let's pool all our information together and do a roundup of all the EMS helicopter services in all the states. In Texas alone there must be at least six services.

San Antonio Fire Dept Update (from June 86 Newsletter)

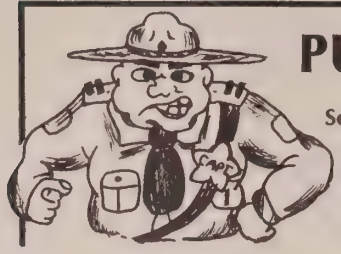
S.A.F.D. has purchased 6 new fire station sites. They will be for the new temporary Station 41, and new stations 42,43 & 44. The present station 26 at HWY 90 & San Joaquin which houses Engines 15 & 26 will be replaced by two new stations 15 & 26. Also new ambulances are in service at stations 27 & 39 now.

Well that should fill our alloted space for this month. Next month I hope to have the list from Arnaud ready to go. It includes most of Louisiana and some of Mississippi. He request others get in touch with him.

Arnaud Milner
3708 N. Turnbull Dr.
Metairie, Louisiana 70002

TENNESSEE POLICE & SHERIFF'S BUREAU OF IDENTIFICATION
Revised 1/1/86

* 1 Use Ch #1
* 2 Use Ch #2
* 3 Use Ch #3
* 4 Use Ch #4
5 Report to Your Post
6 Call -- Telephone
7 Emergency-Serious Situation
8 Meet
9 Disregard
10 Rush-Quick Action Desired
11 Information requested confidential
*12 Switch to County Wide Sheriff's Net 37.260
*13 No Lights or Sirens
*14 Proceed with extreme caution
*15 Report to Fuel Pumps
10-1 Receiving Poorly
10-2 Receiving Well
10-3 Stop Transmitting
10-4 Acknowledgement
10-5 Relay
10-6 Busy
10-7 Out of Service
10-8 In Service
10-9 Repeat; conditions bad
10-10 Out of Service-subject to call
10-11 Dispatching too rapidly
10-12 Officials or visitors present
10-13 Advise weather and road conditio
10-14 Convoy or escort
10-15 We have prisoner in custody
10-16 Pick up Prisoner at _____
10-17 Pick up Papers at _____
10-18 Complete present assignment as quickly as possible
10-19 Return to your station
10-20 What is your location?
10-21 Call this station by telephone
10-22 Take no further action; last information
10-23 Stand by until no interference caused by _____
10-24 Trouble at station; unwelcome visitors; all units in vicinity report at once
10-25 Do you have contact with ____
10-26 Disorderly person
10-27 Break In
10-28 Check full registration information _____
10-29 Check for wanted
10-30 Does not conform to rules and regulations
10-31 Cutting or stabbing
10-32 Is Breathalizer available?
10-33 Emergency Traffic
10-34 Clear for local dispatch
10-35 Confidential information
10-36 Correct time
10-37 Operator on Duty
10-38 Shooting
10-39 Armed Suspect
10-40 Officer in Trouble; needs assistance
10-41 Civil Defense Test
10-42 Burglar Alarm
10-43 Want officer-Investigation
10-44 Stolen Vehicle
10-45 Auto Wreck-Property damage
10-46 Auto Wreck-Injury
10-47 Send Ambulance
10-48 Send Wrecker
10-49 Driving while Drunk
10-50 No Traffic Here
10-51 Driving without license
10-52A-Armed Robbery
10-52B-Strongarm
10-53 Wanted Charge
10-54 Arrest and Hold for _____
10-55A-Kidnapping
10-55B-Rape
10-56 Prowler-man on premises
10-57 Overweight Truck
10-58 Public Drunk
10-59 Fight
10-60 Exposure of person
10-61 Child Abuse/Neglect
10-62 Corpse
10-63 Net directed
10-64 Net Free
10-65 Clear for emergency broadcast
10-66 Clear for cancellation
10-67 Dead animal in Road
10-68 Repeated dispatch
10-69 False Call or Alarm
10-70 Out on foot persuit
10-71 School Traffic
10-72 Fire Call
10-73 Road Block
10-74 Blood Run;Proceed with caution
10-75 Plane Crash
10-76 Drag Racer
10-77 Civil Defense Test
10-78 Civil Defense-Air Attack probabl
10-79 Civil Defense-Actual Attack
10-80 _____ Tower lights burned out at this station
10-81 Checking Vehicle
10-82 Requesting Back-Up
10-83 Breach of Peace
10-84 Possibility of Drugs present
10-85 Request Coroner
10-86 Family Quarrel
10-87 Disturbing the Peace
10-88 Shoplifter
10-89 Request Radio Man be sent to this station
10-90 Radio man will be at your statio
10-91 Homocide
10-92 Disorderly House
10-93 Riot
10-94 Suicide
10-95 Bomb Threat
10-96 Larceny
10-97 Arrived at Scene
10-98 Finished with last assignment
10-99 Unable to receive your signals



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:

Jorge L. Rodriguez, 1129 Castile, Coral Gables, FL 33134

New Southeast Frequency Directory

Before we get into this months column, there are a few things that those of you in the Southeast may be interested in. The first is that Norman Schrein has just released a Regional Scanner Radio Listing for the Southeast US. The book covers the states of Alabama, Arkansas, Florida, Georgia, Louisiana, North Carolina, South Carolina, and Tennessee; as well as Puerto Rico and the Virgin Islands. The directory is arranged not only by geographic location including city and state, but also by service. By using this format, all police frequencies are in the same section as are fire, local government, forestry, mobile phone and other FCC service groups. Published in cooperation with Fox Marketing of Dayton, Ohio you can call (800) 543-7892 or in Ohio (800) 621-2513 for the name and location of the dealer nearest you.

New Scanners

After the disappointing results that the much anticipated ICOM R-7000 and Yaesu FRG-9600 have brought in recent months. Specifically an astronomical price on the ICOM not to mention its' 13 month delay in reaching the market and the scan rate and search problems of the Yaesu, Radio Shack will next month unveil two new radios that have long been overdue. One radio, the PRO-2004 is a desk top or mobile unit with 300 channels in 10 banks of 30. The radio covers 25 MHz to 520 Mhz. and 760 MHz. to 1300 MHz. in the various modulation modes used across those portions of the spectrum. The unit measures 2 13/16 x 10 11/16 x 8 11/16 inches and will sell for $399.95 . The second radio of interest, also expected to debut next month is a 200 channel version of the popular PRO-30. Dubbed the PRO-32 it will sell for $299.95 and covers the same frequencies the PRO-30 covered (30-50;50-54;108-136;138-174;380-512 MHz). Look of reviews of each of these units in the NEW PRODUCT REVIEW Column in future months.

The Metro-Dade 911 Communications Center

The Dade County Regional Data Processing and Communications Center was completed in the fall of 1978 at a cost of over five million dollars. Part of the building houses the data processing equipment and personnel for Dade County. The other side of the building houses the 911 emergency dispatch center for the Police, Fire, and Fire-Rescue services of Metropolitan Dade County.

There are actually five 911 centers within the Dade County geographic area. The City of Miami, Miami Beach, Hialeah, and Coral Gables all have local 911 centers. Any 911 calls made within their city limits are automatically routed by the telephone company equipment to the correct 911 center. All 911 calls within the county that do not originate in one of these cities are routed to the county center. There all 911 calls display the number of the calling party at the answering position automatically, a feature known as "Automatic Number Identification." An additional enhancement of the 911 system expected to be added in the future will also display the address of the calling party (Automatic Location Identifier).

The dispatch area is divided into three sections, each having a different operational function. In the central area of the Dispatch Floor are four rows of 911 answering consoles, with a total of 5 answering positions per row. These 911 answering positions are staffed by police civilian complaint officers

working for a civilian police supervisor. In the right end of the Dispatch Floor 12 radio dispatch consoles allow civilian Police Communications Operators to dispatch Police units on calls in the specific geographic area to which they are assigned (North, Central,Midwest,South,Southwest,and North East). The left end of the Dispatch Floor contains dispatching consoles and Communications Operators responsible for dispatching Metro-Dade Fire units, Fire-Rescue (EMS) units, **AIR RESCUE ONE** (see RCMA NEWSLETTER SEPTEMBER 1986) and various units of the County Government such as Roads and Bridges, Building and Zoning and Traffic Repair units.

The Fire Department Medical Communications Console, located just adjacent to the 911 answering positions is significant. The Communications Operator at that console, using a radio system composed of 30 transmitters and over one hundred and fifty receive channels has the ability to patch a Fire-Rescue unit in the field directly through his radio to any one of a number of area trauma hospitals. The medic can then talk directly with emergency room Doctors and, if necessary, send patient EKG readings by radio to equipment at the hospitals for immediate viewing by their Doctors. The Medcom Communications Operator is also responsible for maintaining the correct status information on the area Trauma Center Hospitals. This information is provided to Fire-Rescue units upon dispatch by their regular dispatchers.

The Fire Department EMS Helicopter **AIR RESCUE ONE** is dispatched by the Fire Communications Center and has been in nearly daily use since September 1985. Hospital status information is extremely vital to the operation of this rescue unit.

Computer Aided Dispatch System

When a call comes in, the Complaint Officer at the 911 answering position obtains information such as the address, name, and type of problem from the calling party. This information is entered into the computer terminal at the 911 complaint console by the officer. It is then sent via the computer to a computer display at the appropriate radio dispatch position, either Police, Fire, or both depending on the nature of the call and the judgement of the Complaint Officer. The computer system, a DEC 11/70, using the address of the call will route it automatically to the correct Police or Fire console for dispatch. The computer keeps track of the units available and those on calls and this information is instantly available to the dispatcher as an aid in assigning the call to a unit. In the case of Fire and Fire-Rescue dispatches, the computer will display the dispatcher a recommended dispatch based on the type of call and the closest available units at that time.

Personnel

With the exception of a Fire Captain who is assigned to the center on a 24 hour basis, all personnel working in the dispatch area are assigned on an 8 hour shift basis. All Communications Operators, Complaint Officers, the Complaint Officer Supervisor, the Fire Communications Supervisor, the Fire Communications Officer and the Fire Communications Bureau Manager are civilian employees. A Police Lieutenant aíded by a Police Sergeant is responsible for the 911-Police Dispatch personnel and operations. The Police Communications Bureau Manager is a Public Safety Department Police Commander. The 911 facility employs a total of 225 people, of those approximately 180 are employed by the Metro-Dade Police Department and the remainder by the Metro-Dade Fire Department.

Some Staggering Statistics

For the year 1985, the center handled almost a million and a half calls for service from the public. The total number of radio transmissions by Police and Fire exceeded thirty million. The

Police assigned, by radio, units to over 526,000 incidents (cases). The average length of time from when a 911 emergency call is answered until a unit is dispatched is less than two minutes. The Fire Department assigned units to almost 84,00 incidents (alarms) last year. About 63% of these alarms were medically related EMS calls ranging from a simple stubbed toe to more serious incidents such as drownings, heart attacks and critical vehicle accidents. Fire Department units average just over five minutes in arriving on the scene from the time of dispatch.

Special Thanks to Fire Communication Bureau Manager **Eugene McKay** and Police Communications Bureau Commander **Clyde Burdick** for the information in this report.

From Scott FL-033

Metro-Dade County, FLORIDA

USE	District	Output	Input	Service
North East	6	155.910	158.730	PP
North	1	155.730	158.745	PP
Central	2	155.190	158.970	PP
Midwest	3	155.700	159.090	PP
South	4	156.210	158.895	PP
Southwest	5	155.955	158.865	PP
Headquarters		155.985	158.835	PP
Records		155.790	159.030	PP
Tactical		155.970	158.910	PP
Fire North		453.525	458.525	PF
Fire Central		453.700	458.700	PF
Fire South		453.800	458.800	PF
Fire Tactical		453.625	458.625	PF
Fire New Dec.'86		453.825	458.825	PF

From Leonzo VA-098 Fairfax County, Virginia

Fairfax County is a 400 square mile suburban area of Washington, D. C. -population 670,000. One thousand full-time fire fighters comprise the nations tenth largest fire department and 850 police offices make up the county's police force.

The department is currently changing over from UHF in the 460's to 800 MHz. During the changeover 460.300 is being used by the detectives and administrative personnel.

853.337	Fairfax County Police	F3	300 series Mclean, 500 series Reston area
460.125	"	F2	200 series Mt. Vernon, 600 series Franconia
460.225	"	F4	Base only due to change
460.575	" Fire	F1	Dispatch
460.600	"	F2	Ambulance-Hospital
460.625	"	F3	Mutual Aid paired 154.265
46.380	Loudon County Fire		County wide dispatch
39.780	" Sheriff		County wide
154.325	Prince William County		Fire-County wide Dispatch
453.475	"		Police-Western end County
453.850	Herndon Police		
453.925	Falls Church Police		
453.975	Fairfax City Police		
155.700	Vienna Police		
159.135	Virginia State Police 7TH Division KNAA-586 Fairfax		

166.925	US Park Police Ch. 2 Main Dispatch		
39.540	Statewide Mutual Aid Frequency/Sheriff and State Police		
154.280	Baltimore,MD. to mid-Virginia Mutual Aid Fire		
453.550	Washington D.C. Police Base Mutual Aid/pursuit channel		
155.460	Virginia State Police (car-base) Fairfax		
154.665	Virginia State Police (car-car)		
166.725	US Park Police (car-car)/Special Assignments		
165.710	Dulles Airport Police		
164.825	Dulles Airport Fire		
165.500	Dulles Airport Police Alternate		
123.050	Med-Evac Helicopter-Hospital		
854.137	Fairfax County Channel 1	F1	400 series Annandale 700 series West Springfield
853.637	" Channel 8	F8	800 series Chantilly
39.500	Loudon County Sheriff Alternate		
453.500	Arlington County Police Channel 2		
39.720	Loudon County Sheriff (car-car)		
161.385	Washington, D.C. Metro Transit Police		
460.375	Alexandria City Police		Citywide Dispatch
453.825	Arlington County Police		Dispatch

Florida Turnpike Radio Toll Plaza ID's

The following are changes for the turnpikes toll plaza identification numbers. These changes show both the old and the new radio id numbers. Toll Plazas are now identified by the exit number, for example exit 40 for West Palm Beach is no "Exit 40" instead of 440 as it used to be.

New Radio ID	Toll Plaza	Old Radio ID
Exit 3	Homestead	Exit 3
Exit 4	Tamiami	Exit 5
Exit 4 East	US 41 East	Exit 7 East
Exit 4 West	US 41 West	Exit 7 West
Exit 5	Okeechobee Road	(New)
Exit 6	Miramar	Exit 4
Exit 6A	Plaza to 27th Avenue	Exit 4A
Exit 6b	Plaza from University Drive	Exit 4B

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

COLUMN EDITOR WANTED

HELLO! Welcome to Public Safety/Great Lakes for October, 1986. Believe it or not, the Column is still being written by your old, faithful editor, so you still have a chance of being published in one of "my" columns if you get your contribution in NOW!

NEWS FLASH About the hottest news you'll read this month {lots of recaps - see below} is that your editor has been promoted: it's now Lt. Waterman of the Mundelein Fire Department. New duties include

Assistant Training Officer and Company Officer for Company 2.

THE MAILBAG Holds only two pending contributions {and a bunch of unanswered letters, I'm afraid...} So the balance of this Column will be material from my files, most of which has appeared in PS/GL before. Please send data and make my final months {years?} pleasant.

--

DOWNSTATE This month's first contribution is from a first-time contributor: **STEVE** [IA-056]. **STEVE** writes "Here is a list of various freqs from the Bloomington/Normal IL area. I grabbed them from a list compiled at a discount store that sells scanners. Some of the info is vague and I can't confirm as I was just passing thru. Use what you can. Anything is better than nothing, maybe?" It appears **STEVE** sensed some of my desperation for input in recent columns.

Here's the list. Area regulars please review, confirm, and comment.

CIVIL DEFENSE	
State Wide	45.44
Peoria	45.40
McLean County	45.52
Chenoa	45.64
Carlock	154.085
STATE POLICE	
Pontiac Base	42.44
Car to car	42.50
Mobile to Pontiac	42.72
General Purpose	154.905
ESDA Statewide	155.025
IREACH	155.055
POINT to point	155.370
Channel 7 {HF-4}	155.460
ISPERN	155.475
POLICE	
Bloomington CH 1	453.925
Normal CH 1	453.950
Normal CH 2	453.775
McLean	39.14
Stanford	153.995
Saybrook	154.100
Colfax	154.965
LeRoy	155.085
Lexington	453.450
FIRE	
Bloomington	154.160
Normal	154.160
Bloomington CH 2	154.390
County Fire	154.190
Statewide Mutual Aid	154.265
AMBULANCE	
County Rescue	155.160
Point to point	155.280
Hospitals	155.340
Bloomington Rescue	155.220

SHERIFF	
County POINT to point	39.46
County base	39.50
McLean County	154.815
McLean ESDA	453.700
Sheriff CH 1	453.675
Sheriff CH 3	453.575
LOCAL GOVERNMENT	
Bloomington DPW	46.56
Illinois Highway Dept	47.14
Illinois Dept Conservation	31.86
County Highway	151.010
Normal DPW	155.830
Bloomington Parks	453.3 ?
Bloomingto/Normal Bus	453.425
Bloomington Highway Dept	47.38
MISCELLANEOUS	
Springfield NWS	162.400
Peoria NWS	162.475
Champaign NWS	162.550
County ?	39.66
Woodford County	155.145
Woodford County	453.550
Chenoa	155.115
Pontiac	155.250
Logan	155.685
Normal	155.010
Normal	155.130
Normal	458.950
Bloomington	155.130
Bloomington	155.370
Bloomington	154.890
Bloomington	158.835
Bloomington	453.150
Bloomington	458.925
County	154.650
County	159.030
County	453.175
County	453.950
County	458.575
County	458.675
County	458.700

Thanks, **STEVE**, for taking the time to write that list up and send it in. Readers who enjoy detective work as part of your monitoring fun, how about checking **STEVE**'s freqs out and sending in your updates?

--

MICHIGAN This month's second reader contribution is from **ROBERT** [MI-018] who wrote "I am sending along some freqs that I picked up on my

recent trip to Northern Michigan. I would have had more except that I lost the notes from the first half of my trip. Perhaps if there are any other members from northern MI, they could add their corrections and additions to this list."

How about it, readers? **ROBERT** has given us a start with this personally researched list. Can you add some details? Here's another chance to appear in PS/GL.

Radio Frequencies from Northern Michigan

Ogemaw County	39.84	also from West Branch
	154.19	West Branch Fire
Roscommon County	39.96	alsofrom Houghton Lake
Crawford County	39.32	
	39.18	Crawford County Fire Heard county calling for assistance to Camp Grayling with a forest fire
Otsego County	39.80	also from Gaylord
Cheboygan County	39.48	(Cheboygan Central)
	39.82	
	154.31	(Cheboygan Central) Fire & EMS
Presque Isle County	39.72	
	39.26	Rogers City
Iosco County	39.64	
	46.10	Hale Fire KNEL915
Arenac County	39.92	
	154.43	County fire & EMS
Wexford County	39.28	
	154.34	Fire-Heard lots of calls here but could not tell for sure where they were from
Bay County	155.625	
	155.79	Bay City Police
	154.31	Bay County Fire
	154.40	Bay City Fire
Inter-City	39.82	Could not tell for sure the exact use for this frequency but it seemed to be used in most of the area.
Michigan State	42.58	
Michigan Department of Natural Resourses	44.72	(DNR)

Thanks, **ROBERT**, for another contribution to the Column. It's personally monitored data such as this that makes our Newsletter the must reading it is!

--

LAKE COUNTY FIRE I submitted a run-down on Lake County, IL fire depts some years ago, when **JOHN** was still column editor. It's kind of a neat system, and I'm out of reader-contributed material. So here's re-run number 1 for this month.

Lake County, IL is divided into rough quadrants for fire department coverage. Each {with minor exceptions} department within a quadrant uses a common frequency for dispatch and operations. In addition, each department uses the Northern Illinois Fire Emergency Radio

Network freq 154.265 for mutual aid. Quadrant numbers and freqs, and the department numbers within each quadrant, are as follows:

QUADRANT 1 - 154.325 mHz
12 Bonnie Brook FPD
13 Gurnee
14 Newport FPD
15 North Chicago
16 Waukegan
17 Winthrop Harbor
18 Zion

QUADRANT 2 - 154.400 mHz
21 Antioch
22 Fox Lake
24 Lake Villa
26 Round Lake FPD
27 Grayslake FPD

QUADRANT 3 - 153.890 mHz
32 Lake Zurich uses 155.835
33 Long Grove
34 Wauconda
36 Barrington

QUADRANT 4 - 154.430 mHz
41 Countryside FPD
42 Lake Forest
43 Mundelein
44 Knollwood
45 Lake Bluff
46 Libertyville
47 Deerfield-Bannockburn
48 Vernon FPD

LAKE COUNTY SHERIFF While we're in my home county, I might as well repeat the scoop on the Sheriff's radio network. There are three VHF repeaterized freqs, two VHF simplex freqs, and one UHF repeaterized freq in regular use. There are more channels in the radio equipment, by my observation, so those of you who have more information, please write in.

Channel	Out	In	Use
1	156.210	158.970	Paging, Local PD's, Coroner, etc
2	155.655	158.940	SHERRIFF's PRIMARY DISPATCH
3	155.700	158.895	Backup dispatch freq
4	154.710		Car to car
	155.475		ISPERN
'S-Band'	460.025	465.025	Tactical use, hand-helds

LAKE COUNTY LOCAL PD's This list was compiled by my own monitoring over the last six years. It's probably not exhaustive, but what's here is correct. Most PD's which dispatch on UHF repeaters retained a VHF-high freq {or two} when the UHF system went up. These often provide more interesting monitoring than the 'primary' UHF freq. I've included the 'local' freqs where I know them.

Town	Dispatch	Local	
Antioch	470.5875		
Bannockburn	155.730	155.565	
Barrington	470.8125	154.695	
Deerfield	155.730	155.565	
Fox Lake	470.5875		
Grayslake	158.745		
Gurnee	153.920		
Highland Park	155.730	155.565	
Highwood	155.730	155.565	
Island Lake	470.7375		
Lake Bluff	155.730	155.565	
Lake Forest	155.730	155.565	
Libertyville	470.8625	155.805	
Lincolnshire	470.8625		
Mundelein	470.8625	154.100	
North Chicago	470.4625		
Round Lake	155.880	154.980	
Round Lake Beach	155.310	155.970	
Round Lake Heights	156.210		
Vernon Hills	470.8625	154.055	
Wauconda	470.7375	159.285	154.980 'local'
Waukegan	470.3125		
Zion	470.5125		

COOK COUNTY SHERIFF I'm really covering Northeast Illinois this month! Well, when 'most everything comes from your own notebook, I guess it's just natural that the data will be local to the writer. Here's the scoop of the Sheriff's radio system:

Channel	OUT	IN	USE
Band 1	155.535	153.995	South County
Band 2	155.595	153.695	North County
Band 3	154.995	153.875	TAC/Rangers/MEG Units "County" Freq
Band 4	155.475		ISPERN
Band 5	155.640	153.935	TAC
	153.815		Corrections Band 1 - Base and Mobile
	154.025		Corrections Band 2 - Base and Mobile
	153.845		Corrections Band 3 - Mobile only

COOK COUNTY LOCAL PD's And to close out the month, here's a list of just the UHF freqs for Cook County PD's. I started this project after I received a fascinating historical look back at the origins of the "Cook County Telecommunications Network XX" notations in each year's Police Call, from **ED** [IL-004]. **ED** has probably forgotten that he gave me the list, but it provided a starting point for determining which of the multiple listings for many of these towns are really the primary freqs.

Buffalo Grove	470.3625	Wheeling	470.7625
Arlington Heights	470.3625	Matteson	470.7625
Broadview	470.4125	Olympia Fields	470.7625
Berkely	470.4125	Richton Park	470.7625
Bellwood	470.4125	Park Forest	470.7625
Westchester	470.4125	Lincolnwood	470.7875
Maywood	470.4125	Skokie	470.7875
Hillside	470.4125	Dolton	470.8125
South Chicago Heights	470.4375	Markham	470.8125
Elk Grove Village	470.4375	Riverdale	470.8125
Sauk Village	470.4375	South Holland	470.8125
Steger	470.4375	Harvey	470.8125
East Chicago Heights	470.4375	Phoenix	470.8125
Chicago Heights	470.4375	Worth	470.8625
Mount Prospect	470.4375	Palos Hills	470.8625
Evergreen Park	470.4625	Palos Heights	470.8625
Hometown	470.4625	Palos Park	470.8625
Merrionette Park	470.4625	Burbank	470.8625
Alsip	470.4625	Chicago Ridge	470.8625
Oak Lawn	470.4625	Flossmoor	470.9375
Rosemont	470.4875	East Hazel Crest	470.9375
Park Ridge	470.4875	Hazel Crest	470.9375
Evanston	470.5625	Country Club Hills	470.9375
Bedford Park	470.5875	Lynwood	470.9375
Hodgkins	470.5875	Homewood	470.9375
Bridgeview	470.5875	Thornton	470.9375
Summit	470.5875	Glenwood	470.9375
Willow Springs	470.5875	Northlake	471.2375
Justice	470.5875	Melrose Park	471.2375
Hickory Hills	470.5875	Franklin Park	471.2375
Kenilworth	470.6625	Stone Park	471.2375
Northfield	470.6625	Berwyn	471.2625
Winnetka	470.6625	Cicero	471.2625
Glencoe	470.6625	Elmwood Park	471.2875
Wilmette	470.6625	Norridge	471.2875
Morton Grove	470.7125	Schiller Park	471.2875
Golf	470.7125	Harwood Heights	471.2875
Glenview	470.7125		
Niles	470.7125		
Midlothian	470.7375		
Calumet Park	470.7375		
Blue Island	470.7375		
Crestwood	470.7375		
Robbins	470.7375		
Dixmoor	470.7375		
Posen	470.7375		
Northbrook	470.7625		

Well, that's it for real, this time. There is not one contribution waiting to appear in the newsletter. So, unless you want more re-runs next month, or worse yet, unless you want to see the despised "NO COLUMN THIS MONTH" for PS/GL, you'd better make the big move and do your part. Get ready to put together your own contribution - just fire up the scanner and

TRACK 'EM DOWN !! WRITE 'EM UP !! SEND 'EM IN !!

{Here's hoping the Great Pumpkin brings you that new rig you want}

PUBLIC SAFETY—CALIFORNIA

P.O. Box 3962 Santa Fe Springs, California 90670-1962

Welcome to this installment of PS-CA, the "Shake and Bake" capitol of the West [where the thermometer reads 95+ and the Richter Scale reads 6.5+].

As most of you know, several California locations have been jolted by a series of earthquakes during the month of July. Reports of damage have ranged from minor to moderate in the areas of Palm Springs, Oceanside, and Bishop.

For those visiting Southern California, and those who may not know, there is an interesting amateur radio frequency that you can monitor during and after an earthquake. Tune to 145.460 Mhz [W6FXN - Buzzard Peak] on the 2 meter band. This machine is operated by Dick LaBell [who most of you may recall, provided the audio transmissions of the Space Shuttle flights prior to the Challenger explosion]. Ham operators from all over Southern California provide radio reports on earthquake activity [such as location, the amount and severity of the movements, etc.] By listening to these reports, you can get a very accurate description of the earthquake activity and its aftermath [at times, more detailed than what you hear over the news media]. Dick provides as much insight on earthquake activity that he had provided during the Shuttle flights.

And although this is not the Amateur Radio Communications column, you may want to explore the world of amateur radio. Scanner owners are finding out that amateur radio can enhance the monitoring hobby.

Special thanks to Vi [CALA-360/W6CBA] for providing the information on W6FXN.

The Saratoga Fire District will change frequencies on or about July 1 SFD will go from the County Communications services [at $40,000 per year] to their own dispatching. Since SFD's existing equipment has multi-frequency capabilities, no equipment changes will occur. The new plan is as follows:

154.400 S	Ch 1	162.2 Hz CTCSS
154.250 S	Ch 2	162.2 Hz CTCSS
154.280 S	Ch 3	No Tone
154.295 S	Ch 4	No Tone

3 articles from the February 1985 issue of "Law and Order" magazine were received dealing with radio communications. In the rural town of Sheridan IN, the 4-man police force is using a "cordless" radio-telephone system. The lone patrol officer can take complaint calls directly while on patrol, after the dispatcher signs off the air. The Ritron Company provided this system when it was determined that the town's residents were unable to call the police department directly, and had to call the County Sheriff or State Police for help. Not only does this system provide the town's residents with the ability to talk directly to the officer, but provides the handling officer with information on what type of call he will be handling, based upon the conversation with the complaining party.

The second article deals with the coming age of computer navigation for law enforcement applications. Etak, Inc. has developed a cost-effective vehicle navigation system for emergency vehicles. With this system, both dispatchers and vehicles can monitor their locations, find cross-references of major intersections, landmarks, etc., and be able to provide "two-way" text communications between dispatchers and vehicles. A computerized visual display, located inside the vehicle, shows the driver his exact position no matter how the vehicle turns, by placement of an electronic compass and wheel sensors which measure the vehicle's movements. At the dispatch center, all vehicles can be monitored to provide the nearest unit to respond to emergency calls. According to the article, Atherton and Menlo Park PD's will be taking part in the installation and testing of these devices.

The final article deals with the use of synthesized mobile radios by the Wyoming Division of Criminal Investigation [DCI]. The DCI is the statewide criminal law enforcement agency under the direction of the State Attorney General, and was formed in 1973. With a jurisdiction of over 97,000 square miles to cover and multiple cities and counties in the state, the DCI needed a radio system that can communicate not only with it's agents, but other law enforcement agencies in the state as well. The problem faced with the new radio system was to be able provide enough radio channels needed for statewide and local communications. The Midland Syn-Tech trunk mounted 80-channel radio was selected after extensive field testing by the DCI. The radios have a 64-channel scanning capability, priority, 35 CTCSS tones, and can be reprogrammed in the field by specially trained DCI agents. The size of the control head was said to be the size of two cigarette packs stacked side-by-sde.

The West Covina Police Department is exploring the use of ultralight aircraft for support operations. WCPD is checking with Monterey Park and Downey PD's who have similar ultralight programs. However, tight budgetary priorities, and liability costs appear to be the barriers against this program.

In another clipping received, what can the California State Police do that local law enforcement agencies can't do? Or are they "...a prop from a 'Smokey and the Bandit' movie?" [as a writer asked columnist Matthew Alice in his "Straight From The Hip" column]. The CA State Police can do anything other agencies can do. In 1853, during the early days of California, the California State Rangers were formed to capture Joaquin Murrieta, a robber who terrorized much of the state. 20 well-armed [and well paid, at $150 per month] men set out after the bandit, with the authority to hunt and kill Murrieta and any of gang members, without benefit of any warrant, hearing or trial. With the objective completed, the Rangers stayed in business, but in slightly different forms. In 1869, the Rangers became the State Police; in 1921, the state legislature gave them full police power anywhere in the state; and in 1928,they were given their own uniform. Today there are about 450 members of the State Police. Their duties include not only state building and property protection, but also "dignitary protection" [of the elected legislative, executive, and judical officals, and their staff]. As the final line of the clipping states: "But if they catch you misbehaving anywhere...you'd better watch out..."

Switching to the Inquiry Channel...Does anyone know who is using the following frequencies? 154.935 Mhz [in Orange County] and 507.7125 Mhz [inversion scrambling in use]. Quick responses are appreciated.

From George [CATO-001]: In answer to Mike [CAOR-204] re: Goodhew Amb in the April 86 Newsletter, the Riverside County radio is as follows:

Goodhew Amb KTE486: 46.040 [Ch1] 37.900 [Ch2]
Ambulance Dispatcher: 155.295 [1st] 155.265 [2nd]
Ambulance to Hospital: 463.175 [MED 8]

From his Groveland home [where his house is at the 3500 ft elevation mark] George monitors the following:

153.800	KMJ894	Sonora City Police and Fire, known as Channel 1. Both departments use the same call sign. Sonora is 30 miles from Groveland. Sometimes he hears Alpine County Sheriff [a good 2 hour drive], but he believes it may be skip traffic.
45.600	KAN567	Amador County Sheriff Ch 1.
45.320	KMG708	Calaveras County Sheriff Ch 1.
45.420	WSB48	Tuolumne County Sheriff Ch 1.
45.540		Shared Channel 2 for the above agencies.
162.550		NOAA Weather from Fresno.
162.400		NOAA Weather from Sacramento.
462.950		MED 9. Sometimes he hears the ambulance dispatch from Oakhurst [in Mariposa County, next door to Yosemite National Park], another 2 hour drive.

George has also included some questions. During the flooding last February, he heard mobile units #106 talking to Base Station "Control 3" and mobile unit #121 talking on 151.085 Mhz. At the same time, he heard another mobile unit #146 talking to his station "Delta Control" on 151.205 Mhz. From the conversations, George thinks the units may be either the Dept. of Water Resources or the Army Corps of Engineers The conversations centered on the flooding in Yuba County. Can anyone help identify the 2 frequencies?

George also asks if anyone can identify the following. The location is Jamestown CA [Tuolumne County] with a call sign of WGI324. George states Channel 2 is used more than the others:
453.050 [Ch1] 453.325 [Ch2] 453.850 [Ch3] 458.850 [CH4] "car/car"

In a final note, George gives some info on CDF. Back in the 1960's & 1970's, CDF had 3-channel radios for the local, regional and state nets. The CDF then replaced these sets with 12-channel mobile radios Now in 1986, CDF has an 80-channel mobile radio [made by Midland] and this radio is capable of receiving every CDF, US Forest Service, CDF fire aircraft, and OES fire equipment, in the state and more. George adds the Midland radio has a Channel 1 priority, scanning feature and much more. George will be sending in a report on the 80-channel unit and other CDF information.

In case anyone out there is wondering where the hell is Groveland? It is on Highway 120, 50 miles west of Yosemite National Park, next door to the Stanislaus National Forest in Tuolumne County.

From Craig [CAVE-011]: He has enclosed the operational procedures of ICS [Incident Command System] Multi-Agency Operations of the L A City Fire Department [responses outside the city]. By definition, the ICS is the combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure with responsibility for the management of assigned resources to

effectively accomplish stated objectives pertaining to an incident. Craig has also enclosed a glossary of terms used by ICS. Although all of the terms cannot be listed, here are some of the more highlighted definitions:

Branch: That organization level having functional/geographical responsibility for major segments of incident operations. The Branch level is organizationally between Section and Division.

Company: Any piece of equipment having a full complement of personnel.

Division: That organizational level having responsibility for suppression and rescue operations withing a defined geographical area or with functional responsibility. The Division level is organizationally between the Strike Team and the Branch.

Element: Any identified part of the Incident Command System organizational structure.

Engine: Any ground vehicle providing specified levels of pumping water, and hose capacity but with less than the specified level of personnel.

Engine Company: Any ground vehicle providing specified levels of pumping, water hose capacity and personnel.

Flycrew: A handcrew of predetermined size transported to an incident via helicopter.

Helibase: A location within the general incident area for parking, fueling, maintenance, and loading of helicopters. May have water loading capabilties.

Helispot: A location where a helicopter can take off and land. May have water loading capabilities.

FLIR [Forward Looking Infra Red]: A portable infra red scanner which may be mounted on helicopters.

Multi Agency Coordination Systems [MACS]: The combination of facilities, equipment, personnel, procedures and communications integrated into a common system with responsibility for coordination of assisting agency resources and support to agency emergency operations

RESTAT: An acronym for Resource Status Unit - a unit within the Planning Section.

SITSTAT: An acronym for the Situation Status Unit - also within the Planning Section.

Staging Area: That location where incident personnel and equipment are assigned in anticipation of assignment to suppression and rescue operations.

STRIKE TEAM NUMBERING: Strike teams dispatched by OCD will be numbered starting with 20 [i.e. B-20, B-21,etc.]. Strike teams which are formed at the scene of the emergency will be numbered starting with 50 [o.e. B-50, B-51, etc.]..

Tactical Team [Tac Team]: A group of suppression and rescue resources with a leader temporarily assembled for a special mission and disbanded at the conclusion of the mission.

TACTICAL TEAM NUMBERING: Tactical teams of mixed resources are normally formed at the incident. They will be referred to as Tac Teams", and will be numbered starting with 1 [i.e Tac Team 1, Tac Team 2, etc.].

To conclude Craig's input, is a graph of the Strike Team Composition, and the procedures from Dispatch to Demobilization. The PS-CA editors would like to apologize, at this time, if these items are difficult to read [in order to conform to the Newsletter format, the photocopy of these items had to be reduced from another photocopy].

STRIKE TEAM COMPOSITION

(Capabilities shown are minimums)

STRIKE TEAM SERIES	EQUIPMENT NUMBER/TYPE	EQUIPMENT CAPABILITY							MANNING		
		PUMP CAPAC.	WATER CAPAC.	2-1/2" HOSE	1-1/2" HOSE	1" HOSE	LADDER	HEAVY STREAM	S/T LEADER	PRT INCREM.	TOTAL
A	3 Engines, Type 1 1 Truck, Type 1 or 2	1000 GPM	400 GAL.	1200 FT.	200 FT.		20 FT. EXT. 163 FT.	500 GPM	1	4 4	17
B	5 Engines, Type 2	750-500 GPM	400 GAL.	1000 FT.	500 FT.	300 FT.	20 FT. EXTENT.		1	3	16
C	5 Engines, Type 3	120 GPM	300 GAL.		1000 FT.	800 FT.			1	3	16
D	5 Engines, Type 3 or Type 4 or combination	120 GMP 50 GPM	300 GAL. 200 GAL.		1000 FT. 300 FT.	800 FT. 800 FT.			1	3	16
E	Hand Crews to comprise a minimum of 35 persons	An "E" Strike Team is normally composed of Type 1 crews but may be composed of Type 2 Crews. Type 1 & 2 crews should not be mixed on a strike team.							1	-	36
F	2 Dozers of similar type and 1 Dozer Tender	Bulldozers are typed as 1-heavy, 2-medium, and 3-light. Dozers of different types should not be mized on a strike team,							1	2 1	6

ICS MULTI-AGENCY OPERATIONS OUTSIDE LOS ANGELES CITY

STRIKE TEAM LEADER/DIVISION SUPERVISORS
ICS OPERATIONAL PROCEDURES

DISPATCH

Strike Team designator - L.A. CITY S/T 20, L.A. CITY S/T 21, etc. (LAFD S/T E-1 20)
Assigned radio channel.
Respond to pre-staging area.
Respond to incident reporting location as a group.

ARRIVAL

Check in - ICP or Staging area.
Notify by radio or in person.
Obtain briefing from Division/S&R Chief.

- Incident Action Plan
- Operational plans

- Work assignments
- Work Kit, Unit Log
- Determine communications link

ASSIGNMENTS

Suppression & Rescue - Fire suppression, Division assignment.
Staging - Available for assignment.
Base or Camp - Generally out of service.

COMMUNICATIONS

An O.E.S. Mobil Communications vehicle (either COMSTAT 6 or COMSTAT 3) will be utilized at the incident and they have the following L.A.F.D. radio channels:

COMSTAT 6 - LAFD Radio Channels	COMSTAT 3 - LAFD Radio Channels
Channel 8 - 33.82	Channel 14 - 33.86
Channel 10 - 33.94	
Channel 12 - 33.48	
Channel 14 - 33.86	

May use channels 8 or 10 for LAFD fire suppression operations, and channels 12 or 14 for Logistics/Status, and Command channel with ICP. Additional walkie-talkies from other agencies may be available.

FIRE SUPPRESSION OPERATIONS

Respond to operational area and check-in with supervisor. Operate per plan.
Brief subordinates and give assignments.
Supervise strike teams and other assigned resources.
Obtain progress reports.
Take corrective actions.
Determine need for additional resources: Helicopters, Dozers, Strike Teams, ICS Task Forces, Personnel, and Equipment.

- Request through Division Supervisor.
- Division Supervisor may: Reassign resources assigned to his division or request through immediate super visor. If preplanned, he may request helicopters or fixed wing aircraft through Air Operations Division Supervisor.

Coordinate with adjacent increments.
Submit reports to Divison Supervisor/S&R Chief of status, situation and progress. Report status to Division Supervisor, immediate supervisor, or Communication Center-RESTAT.

LOGISTICS

Determine need for Service/Support, fuel, repair, food, equipment, supplies.
May be preplanned at initial briefing.
Request through immediate supervisor or direct using logistics channel to Communications Center, relay to Logistics.

REASSIGNMENT

May be reassigned to different area of fire; to staging area; to base or camp.

DEMOBILIZATION

Incident Commander authorized to release resources.
OCD notified through appropriate channels.
OCD will determine return destinations and notify released LAFD resources.

Before returning, Division Supervisors and Strike Team Leaders turn in Unit Logs, applicable records, and kits to Documentation Unit or immediate supervisor.

LAFD ICS MULTI-AGENCY INVOLVEMENT OUTSIDE LOS ANGELES CITY

The Los Angeles Fire Department's involvement outside the City may be the commitment of limited resources and trained personnel to ICS suppression activities. Strike Team Leaders, Strike Teams, and Division Supervisors may be dispatched. If more than one Strike Team is dispatched, we will send a Division Supervisor which will normally be a Fire Suppression Assistant Chief.

NEW PRODUCT REVIEW

This column is for reports on new products of interest to scanner listeners. Send reports on scanners, antennas, frequency publications and other products related to the hobby to:

James A. Abdu (GA-058), 1203 N. Crossing Way, Decatur, GA 30033

Hello and welcome to another New Product Review Column. This month I have information on a new hand held from Radio Shack and more on Regency scanners.

The speed modification for the Regency MX-7000 and MX-5000 has generated alot of interest and response. I hope that the information presented in the September Technical Topics column answers some questions and inspires members to upgrade thier units. I have not heard of the modification performed on the MX-5000 but was told it should work just the same. I hope that members who upgrade thier units will let me or Steve Kayworth know the results so we can relay any additional information through the newsletter.

Radio Shack has some new scanners and price changes in the new catalog. A new hand-held, the PRO-32, is offered at $299.95. This unit is very similar in operation to the PRO-30 with some big changes. The frequency coverage is the same: 30-54MHz, 108-136MHz, 138-174MHz, and 380-512MHz as are the features such as dual speed, priority, search, keyboard lockout and light. The real difference is in the memory, this unit offers a wopping 200 memory channels and 10 monitor memories!

The PRO-32 has 10 banks of 20 channels each and any number of channels between 2 and 200 can be scanned. Individual channels may be locked out and banks may be switched in and out with the touch of a key. The L.C.D. indicates which banks are "in" and "out" and the bank currently in use is also indicated.

While it may be unreasonable to scan 200 channels (although the unit is quick!) the convenience of the banks should be immense. I'm sure we can each think of how we would set up the banks: by location, agency, frequency range etc... I have been in touch with Radio Shack and expect to have a test unit in a week or so and will keep you updated.

I'm sure owners of PRO-30's are wondering the same thing I was: if the units (PRO-30 and PRO-32) are so much alike is it possble to upgrade the PRO-30? The answer I got from Radio Shack was "No !, The units are totaly different inside".

I am anxious to compare the PRO-32 with the new Regency hand-held, the HX-1500, on speed, sensitivity, image rejection etc... I will report these finding as soon as possible. I would also appreciate information from members who may have purchased or checked out these (and other) new products.

Radio Shack also has some new scanners with coverage in the 800+MHz range, I'll report on these as soon as I get more information.

Regency also has another new scanner on the market, the R1075. This unit has 15 channels and covers 30-50MHz, 144-174MHz, and 440-512MHz. The R1075 has a dual-level florescent display, sliding volume and squelch control, capacitor memory back-up as well as priority, lockout, search and delay functions. The R1075

comes with telescoping antenna, AC power cord and one-year warranty. The suggested retail price is $179.95 but it should be available for less from discount dealers.

The R1075 appears to have the coverage and features usually found in more expensive units and with should be a good unit for beginners, back-up or specific use scanning.

I recieved a letter from Darrel Charest (TX-103) with information on three different scanners he has tried over the past year: the Sony Air-8, Bearcat BC-100XL (hand-helds) and the Yaesu FRG-9600.

Darrel states "In my opinion it (the Sony Air-8) is a superb unit. The radio covers four bands - 150KHz to 2194KHz, 76-108MHz, 108-136MHz and 144-174MHz. Each band has ten memory channels... In comparison to the Bearcat 100XL and the Yaesu FRG-9600, the sensitivity and selectivity are noticeably better in the Sony Air-8."

The BC-100XL covers 30-50MHz and 406-512MHz. Darrel enjoyes the Ni-Cad batteries and charger and leather carrying case but finds the search rate slow (although the scan rate "does very well") and "(the BC-100XL) is aso a very good radio, but it does not provide the overall quality performance of the Air-8"

The Yaesu FRG-9600 has continuous coverage of 60-905MHz with 100 memory channels which may be scanned in units of ten or less. Darrel adds these comments: "...the scan rate was agonizingly slow - two per second on memory channels and five per second in search mode. It also had the frustrating propensity of passing active channels, sometimes even strong signals." Thanks for the info Darrel.

I came across an interesting new communication method but it may be difficult to monitor. A defense contractor has developed the technology to bounce voice radio transmissions off the ionized trails of meteors. The system is designed to provide communications if nuclear war disrupted the radio wave bouncing ionosphere. During peacetime the system would withstand jamming and signal interceptions and recover quickly after disrurptions caused by solar flares.

Scientist from the Strategic Systems Division of GTE Corp. were able to send a one way voice signal beyond the horizon, from Westborough, Mass., to an antenna 150 miles away in rural Maine, by bouncing the signal off ionized meteor trails.

As many as 200 million meteors hit the earths atmosphere every day and their ionized or electrified trails of heated air usually last between a few hunderd milliseconds and two seconds. Company spokeswoman Claire Deveny states "The big key with using meteors is that it will work in environments in which traditional communications breaks down... over a period of less than a minute you will find a meteor that has the correct geometric to send your signal." I imagine these scientists must be talking quickly for a two second voice message!!!

Take Care and Stay Tuned....

Jim Abdu

RAILROADS

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

The big news this month in the railroad world regards the proposed merger of Santa Fe and Southern Pacific railroads. On July 24 the Interstate Commerce Commission voted 4 to 1 to reject the merger petition. The combined railroad would have been the country's second largest (CSX is number 1), with 25,400 miles. The holding companies merged in 1983, but the railroads continued to operate separately pending the ICC decision. Now it appears that one or both of the

railroads will be sold. Before the decision, a Santa Fe employee told us that the SP and Santa Fe road channels would be retained for a time after the merger, then the system would switch to one systemwide road channel with several terminal channels to be used in congested areas. Now, barring unforeseen developments, those changes will not take place. Thanks to Don (CA-SM-032) for sending us newspaper clippings on this decision.

We'd like to clarify our reports on the East Tennessee Railway in Johnson City, TN. In the August issue we reported their frequency as 160.425, then in our September column we showed it as 161.235. They are currently using 160.425 and 161.235 is no longer in use.

Several months ago an outside contractor began providing "Railfone" telephone service on board Amtrak's Metroliner Service trains between New York City and Washington, DC. The July bulletin of the National Association of Railroad Passengers gives some details: (1) Cost is $5 for 3 minutes, $1 for each additional minute—must be charged to a major credit card; (2) Only outgoing calls are possible; transmission quality is reportedly good; (3) There are four gaps where calls cannot be placed: Baltimore tunnels & station; Susquehanna River-Elkton, MD; Lawrenceville-New Brunswick, NJ; and Passaic River-New York Penn Station. Mark Landgraf (NY-336) would like to know if any member can provide us with technical information on the system being used. What is the name of the company providing the service? Is it a cellular system? If so, is there a special system of cells or do the phones use the regular mobile cellular system of the region? What frequencies are used? The idea of a cellular system for trains raises some interesting questions. Could directional antennas be used to create oval-shaped cells, rather than round ones? Would fewer frequencies be needed than for a conventional system, because the region to be covered is linear rather than two-dimensional? Let's hear from someone who knows the answers!

Our contributions this month included a complete railroads listing from one volume of the Police Call frequency directories. As we've mentioned before, we cannot reproduce listings from copyrighted publications. Even if we could, reproducing listings which are available elsewhere would not be the best use of the Newsletter's limited space. We do appreciate the time and effort of the members who write to us and we hope that you will all continue to write to us and report on the railroad frequencies that you monitor. Your on-the-scene reporting is something that no other publication can match.

Gary L. Sturm (IN-045) reports on a new shortline called Midsouth Rail, headquartered in Jackson, MS. Their shops are in Vicksburg, MS and they are using 160.545 as their road channel. 160.215 and 161.010 are used for yard and maintenance-of-way, but we need someone to verify which is which.

Gary also reports that Chicago Central & Pacific, which bought Illinois Central Gulf's line between Chicago, IL and Council Bluffs, IA, is using ICG's road frequency of 161.190 until it gets its own channels.

SAN FRANCISCO BAY AREA

by DON (CA-SM-032)

SOUTHERN PACIFIC:

161.550	Ch 1	Road
160.890/161.040	Ch 2	PBX
160.950/161.160	Ch 3	PBX
161.400	Ch 4	Police
161.100	Ch 5	Oakland carryalls
160.290		San Jose switching
160.470		San Jose carmen
161.340		San Jose switching
160.350		Oakland carmen
161.310		Oakland switching
161.430		Oakland, San Jose, Tracy switching

SANTA FE:

160.650	Road
160.245	PBX statewide
160.335	PBX Bakersfield & south
160.425	PBX Richmond
161.190	Yard Bay area
161.010	Maintenance systemwide
161.370	Santa Fe truck transport

CAMDEN, NEW JERSEY

by WILLIAM E. PURNELL, JR. (NJ-216)

PORT AUTHORITY TRANSIT COMPANY (PATCO)

PATCO's High Speed Line has 14.5 miles of track running between Philadelphia, PA and Lindenwold, NJ. It takes 23 minutes to ride end to end with 13 stops. The route is in subway in downtown Camden and Philadelphia, while the eastern end of the line is on the surface.

500.8125	Ch 1 Dispatch to police and police to dispatch
500.8375	Ch 2 Dispatch to trackmen and trackmen to dispatch
500.8875	Ch 3 Dispatch to train & train to dispatch (secondary)
500.9125	Ch 4 Dispatch to train & train to dispatch (primary)

CONRAIL:

160.800	Ch 1 Road
161.070	Ch 2 Road
160.560	Ch 1 Police
160.680	Ch 2 Police
160.860	Yard
160.980	Camden & South Jersey dispatcher

I am a new member to RCMA. I just received my first Newsletter (Aug. 1986). Is there anyone who knows any other important RR frequencies in the Camden, NJ-Philadelphia, PA metro area?

[You just missed a good writeup on SEPTA in our July column, William. Try listening for SEPTA commuter trains on 160.350, and their maintenance operations on 160.395. SEPTA also has allocations on 160.275, 160.290, and 161.325, and we need to find out what those channels are being used for. If you can find out by monitoring, please let us know what you hear. -ed.]

That's all we have for this month. By the time you receive this issue, vacation time will be drawing to a close and we'd appreciate it if all our readers would send us a list of the railroad frequencies they monitored while traveling this summer. Even if it's old, boring information to you, remember that it's new information to everyone else. Best regards until next time...

—Gary & Bill

TECHNICAL TOPICS

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:

Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

SOME FILTER NOTES
and Other Things

For many of you around the country, the weather has been cooler for some time now, but here in South Florida, October marks the begining of the fall season. This summer was a particularly hot one, so October comes none-to-soon.

This is also the time of year we see an increase in the number of visitors who come to Florida with their mobile phones. Recently, many of the mobile phone users have been operating on the 800 MHz cellular frequencies, but there are still many people who use the older

VHF and UHF telephone channels. These systems are refered to as IMTS systems. This stands for Improved Mobile Telephone Service.

One of the things that stands out when you monitor one of the IMTS channels is that, when you come across an unused one, you hear a constant tone and your scanner locks up on that channel. Although the tones may be irritating to listen to, they do serve an important function in the IMTS system.

The tone you hear is a channel marker which indicates that the particlular channel is not busy. Each mobile phone unit, when it is turned on but not in use, scans its bank of IMTS channels searching for a channel with a tone on it. When the mobile finds a channel with one of these tones on it, it stops on that channel and waits. As soon as any mobile unit accesses the channel to make or receive a call, the tone ceases. As soon as the tone stops, all the other mobile phones on the system start scanning again until they find the next channel with a tone on it. Only the one unit that accessed the channel stays on that channel. In this way, there could be quite a few mobile units sitting on an unused channel, but as soon as just one of them starts to use the channel, all the other units automatically move off to the next unused channel. If all the channels in a particular area are in use, then the mobile units will keep scanning until a channel becomes free as indicated by a tone on the channel. If a user tries to access a channel when none are available, the mobile phone will give a busy indication, which means - Try Again!

I recently received a letter from a reader who asks:

> Can you tell me if there is anything available that will permit me to monitor the...frequencies used by the telephone companys that will eliminate the continuous tones when there is no conversation present?

This is an often asked question and one which has no easy answer. Let's investigate some possible solutions.

What about the use of a filter to get rid of the tones. On the surface, this seems like a good solution to the problem, but after looking at the situation a little closer, it becomes clear that it is not that simple. The writer of the the letter refered to above further writes:

> I purchased an FTR3 notch filter..., but it will not eliminate the tones without eliminating the voice.

To understand the reason that this happens, you must first understand that filters are designed for specific frequecies. The FTR3 is designed for RF frequencies. These are the same frequencies that the scanner is trying to receive. This filter is placed in the antenna feedline between the scanner and the antenna. When you "notch-out" the tone, you are really filtering out the entire signal you want to receive. That is why both the tone and the voice disappear.

It is possible to filter out the tone without filtering out the signal you want to receive. To do this, you would still use a notch filter, but it would have to be tuned to the audio frequency range rather than the RF range. Also, it would have to be installed in the audio line between the scanner and the speaker. With the filter in the audio line instead of the antenna line, you could filter the tone without removing the signal itself.

This sounds like the solution to the problem, but it's not. The reason it's not is this: most scanners are designed with a carrier operated squelch. This means that the scanner will stop whenever it finds the presence of a carrier. Eventhough you could tune out the annoying tone, the scanner would still lock-up on the channel where the tone was because of the presence of the carrier on which the tone is being transmitted.

You have probably guessed by now that I'm not working my way towards a solution to this problem. There really is no easy solution. At best, you could put a filter in the audio line of the scanner to tune out the tone, but the scanner would still lock-up on the channel.

If anyone out there has solved this problem, please write. I know a few people who would be very grateful.

MX-7000 Speed-up Update:

I mentioned last month that I was going to try to perform the modifications to increase the scan rate of the MX-7000. Well, between vacations and other commitments, I didn't have a chance to do this. I still hope I am able to do it, but only time will tell. If I do, you will see it here.

One interesting note comes from Jim Abdu (New Products Review). In a discussion he had with the techs at Regency, he was told that the same modification should work on the MX-5000 since the scan circuitry is the same for both units.

I hope you all have a great October.

'til next time

Steve

VHF MARINE

Send information, articles, frequencies and their use, and questions that relate to private, commerical, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your October 1986 VHF Marine column.

Not anything in the mailbag this month. I don't know whether it is the heat or everybody is listening to other phases of scanning.

It is now the time for some fresh blood to be injected in the column. A lot of members have been carrying the column along with their information for a long time. For this I thank them. For the other readers it is now your time to come in and pick up the slack.

I don't mind writing copy or doing other work but I am here mainly to edit your copy and submit it in for publication.

There are lots of changes going on in this club and scanning in general, but lets not let what we have built up fall down around us and waste all that we have worked for in the past. We should look to the future and concentrate on ways to further improve our end of the scanning hobby.

With your help we can make this the best column in the club and continue to further concentrate on Marine interests.

I am in need of the following information for upcoming issues:

1) Pilot Boat Information for all areas
2) Fireboat Information for all areas
3) Tour boat Information for all areas
4) Ferry boat Information for all areas
5) Tug Boat Information for all areas
6) Coast Guard Small Boat Listings for all areas and stations
7) Coast Guard Large Vessel Listings for all areas
8) Coast Guard Operations for all areas
9) Coast Guard Communications for all areas
10) Fishing Fleet Communications for all areas
11) Work Boat Operations & Communications for all areas
12) Oil Well Communications for all areas
13) Emergency Communications for all areas
14) Bridges & Locks for all areas
15) Government Marine Band Usage for all areas
16) Police Marine Band Usage for all areas
17) Misc. Boating Information for all areas
18) Any other Marine Information not mentioned above that you have an interest in

I would also like ideas on what you would like to SEE and NOT SEE in this column along with ideas for special columns and information.

In general now is the time to speak your mind on what you like and dislike about this column and what you would like to see changed to make it better.

Enough of the Soap-Box and on with the program.

The following is a list of vessels with special names.

Rescue 1 - WZF-3197 - Anaheim,Ca.
Rescue 20 - WRV-2345 - New Castle,De.
Rescue 245 - WRS-3890 - Escambia Search & Rescue - Pensacola,Fl.
Rescue 3 - WYB-7399 - Terrebonne Parrish Sheriffs - Houma,La.
Rescue 43 - WXE-9007 - Rescue 43 - Palo Alto,Ca.
Rescue 4 - WXR-3983 - Eckerd College - St.Petersburg,Fl.
Rescue 4 - WXG-8068 - Mission Bay Yacht Club - San Diego,Ca.
Rescue 5 - WYL-9862 - Eckerd College - St.Petersburg,Fl.
Rescue 741 - WXA-7857 - Thurston County Sheriffs Dept. - Olympia,Wa.
Rescue #1 - WYG-2328 - Chicago Park District - Chicago,Il.
Rescue #2 - WSY-4743 - Chicago Park District - Chicago,Il.
Rescue #3 - WSY-4744 - Chicago Park District - Chicago,Il.
Rescue #4 - WSY-4745 - Chicago Park District - Chicago,Il.
Rescue #8 - WXB-7265 - Charleston Cnty.Vol.Res.Sqd. - Charleston,SC
Rescue - WYQ-9730 - Gwynn,Va.
Rescue - WRQ-2348 - Rockland,Me.
Rescue Boat 1 - WRW-3583 - Colonial Beach Res/Sqd.- Colonial Beach,Va.
Rescue Boat #8 - WRV-4313 - 10th.District Fire Dept. - Marbury,Md.
Rescue Four - WZD-5639 - Westbrook Fire Dept. - Westbrook,Conn.
Rescue I - WZL-7182 - Costa Mesa,Ca.
Rescue II - WJ-3602 - City of Santa Monica - Santa Monica,Ca.
Rescue II - WSX-2855 - Eckerd College - St.Petersburg,Fa.
Rescue II - WYX-7868 - Racine County - Racine,Wisc.
Rescue Ranger - WT-3226 - Marinette,Wisc.
Rescuer - WQ-6399 - Board of Levee Comm. - New Orleans,La.

Research 1 - WXB-4311 - Seward,Alaska
Research Diver - WYW-9412 - U of New Hampshire - Durham,NH
Research 1 - WRV-9896 - Wilmington,Ca.
Research I - WZM-8052 - Portage,Mich.
Research I - WT-8690 - State of Washington - Olympia,Wa.
Research II - WZB-6990 - Paw Paw,Mich.
Research II - WRY-9996 - Barton,Fla.
Research III - WRZ-5568 - Sarasota,Fla.
Research One - WZE-8636 - San Diego,Ca.
Research Raft II - WZE-3625 - Mich.Tech.University - Houghton,Mich.
Research Vessel Cobra - WZG-9958 - State of Georgia - Brunswick,Ga.
Research Vessel Dore - WZE-3925 - Vermont Fish & Game - Milton,Vt.
Research Vessel Hero - WXD-4058 - Antarctic Services - Paramus,NJ
Research Vessel Hero - WXL-8299 - Holmes & Narver - Orange,Ca.
Research Vessel Zoea - WRX-9987 - Old Dominion University-Norfolk,Va.
Researcher I - WXS-8384 - Euclid,Ohio
Researcher II - WRS-9217 - Port Lauaca,Texas
Reservation One - WXF-9757 - Grumann Aerospace - Lantana,Fl.
Reservations - WSX-3143 - Clearwater,Fl.
Reserve - WYZ-8825 - Marble Head,Mass.
Reserve - WE-7207 - Oglebay Martin Co. - Cleveland,Ohio

Gov.Herbert H.Lehman - WV-8123 - City of New York - Brooklyn,NY
Governor Curtis - WY-4734 - DOT Ferry - Rockland,Me.
Governor Edward Hyde - WYJ-4420 - NC DOT Ferry - Morehead City,NC
Governor Muskie - WL-5930 - Maine Port Auth. - Rockland,Me.

MARINE RADIO PROFILE: (NORTH CAROLINA)

ATLANTIC:

Luther Smith Seafood - WHD-776 - 2097.9 kc.,2183.4 kc.,4420.8 kc.,
6220.0 kc.,8292.5 kc.
156.450,156.800
Morris Marina - WXZ-371 - 156.450,156.475,156.800

ATLANTIC BEACH:

Navtronix - KPB-514 - 2097.9 KC.,2183.4 KC.,4126.4 KC.,8295.6 KC.
156.425,156.800
Anchorage Marina - KVY-682 - 156.425,156.800
Atlantic Beach Causeway - WHD-822 - 156.425,156.800

VHF MARINE continued

Gentry,Walter C. - WHF-750 - 156.425,156.800
Fort Macon Marina - WQZ-347 - 156.425,156.800
Crows Nest Marina - WRV-535 - 156.425,156.800
8 1/2 Marina Village - WRV-595 - 156.425,156.800

BAYBORO:

Hudgins,Talmadge Jr. - KZH-821 - 2097.9 kc.,2183.4 kc.,4126.4 kc.,
6220.0 kc.,8295.6 kc.
156.450,156.800

BEAUFORT:

Carteret Electronics - KEB-295 - 156.425,156.450,156.800
Discovery Diving Co. - WHG-563 - 156.425,156.800,157.025
Kenny Pittman Seafood - WQZ-270 - 2097.9 kc.,2183.4 kc.,4120.8 kc.,
6220.0 kc.,8292.5 kc.
Radio Island Marina - KMB-887 - 156.425,156.800
Ralph Taylor & Sons - KYJ-214 - 4126.4 kc.,6223.0 kc.,8295.6 kc.
156.350,156.800
Seacoast Line Handlers - KJA-594 - 156.425,156.450,156.700,156.800
Duke University - WJS - 4126.4 kc.,6523.3 kc.,8295.6 kc.,12430.6 kc.,
16594.7 kc.
156.550,156.800

BELHAVEN:

Belhaven Fish & Oyster - KYQ-704 - 156.800,156.975
O'Neal,Walter M. - WDT-560 - 2097.9 kc.,2183.4 kc.,4126.4 kc.,
6223.0 kc.,8292.5 kc.
156.800,156.975
Delores Marie Inc. - WDT-527 - 4420.8 kc.,6220.0 kc.,8292.5 kc.
River Forest Manor - KIL-772 - 156.425,156.450,156.700,156.800

CAROLINA BEACH:

Missy's Messy Market - WQZ-373 - 156.450,156.800
Severt,Bryant Jr. - WRV-437 - 156.800,157.025

EAGLE ISLAND:

Wilmington Towing Co. - WHH-302 - 156.550,156.675,156.800

HARKERS ISLAND:

Grayson Motel & Marina - WRD-783 - 156.425,156.800

HATTERAS:

Hatteras Marine Club - WQA-220 - 156.425,156.800

KURE BEACH:

UNC Sea Grant - WHG-615 - 156.425,156.450,156.800

MANTEO:

Salty Dawg Marina - WHU-213 - 2097.9 kc.,2183.4 kc.,4123.4 kc.,
6220.0 kc.
156.575,156.800

********** TO BE CONTINUED NEXT MONTH **********

Well thats about it for this month. Next month I hope to have some membership input to print.
Remember the past is over,think to the future.

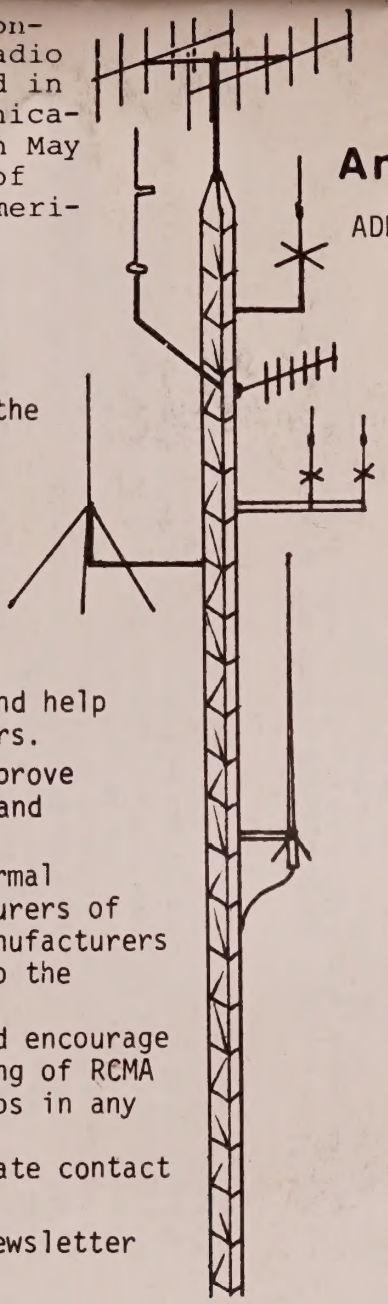
RCMA NEW MEMBERS LIST

The New Members List will appear next month.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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